

Port of Long Beach Cruise Terminal Improvement Project Incidental Harassment Authorization (IHA) Final Report



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1 Executive Summary

The purpose of this report is to meet final reporting requirements of the approved Incidental Harassment Authorization (IHA) from the National Marine Fisheries Service associated with the Port of Long Beach Cruise Terminal Improvement Project (project) in the Port of Long Beach, California. The project's IHA was approved for in-water construction activities in 2019, and its renewal application was approved on November 30, 2022. The IHA requirements include monitoring of the construction areas to detect the presence of marine mammals before, during, and after construction activities, shutdown of construction activities under certain circumstances to avoid injury of marine mammals, use of bubble curtains during pile driving, and soft start procedures for impact and vibratory pile driving to allow marine mammals the opportunity to leave the area prior to beginning pile driving at full power.

In 2023, monitoring was conducted by qualified observers trained in marine species identification and behaviors who had experience conducting marine mammal and sea turtle monitoring for pile driving and dredge activities during construction. This report summarizes monitoring results for pile driving and dredging activities conducted during Cruise Terminal construction that took place in March, April, May, July, September, and October of 2023 for a total of 39 pile driving monitoring days, one pre-construction survey day, and dredge monitoring days. A combined total of 783 animal sightings of marine mammals and green sea turtles were recorded during project monitoring activities. California sea lions had the most sightings (n=410), representing 52.4 percent of all the sightings. The Common bottlenose dolphin had the second highest number of sightings (n=321), representing 41 percent of all the sightings. The remaining sightings were of Pacific harbor seals (n=31). Short-beaked common dolphin (n=8), Gray whales (n=10), and green sea turtles (n=3), represented 4 percent, 1 percent, 1.3 percent, and 0.4 percent of the sightings, respectively.

A total of 74 Level B (harassment) takes were recorded during project pile driving activities and none during dredging activities. Monitoring results indicated that 122 sightings of marine mammals and green sea turtles were made during active pile driving. Overall, most sightings were of animals outside Level B monitoring zones or during pre-construction, post-construction or during delays and standby time periods when pile driving was not occurring. Work stoppage due to animals observed approaching or within shutdown zones during pile driving or dredging occurred five times for a total of 48 minutes. In addition, work stoppage and workdays were cancelled for a total of 4 days due to poor weather conditions (i.e., high winds). The lead monitor, located adjacent to project pile driving activities each day, worked in close coordination with the construction team using multiple communication devices to manage the monitoring program. When an animal was observed approaching one of the shutdown zones, monitors contacted the lead monitor using Very High Frequency radios and the lead monitor radioed the pile driving operator to stop pile driving until the animal was outside of the designated shutdown zone. Overall, mitigation and monitoring methods and protocols used during monitoring such as bubble curtains, soft starts, land and vessel-based observers, alerts, and shutdown zones were effective in preventing any injury or adverse behavioral disturbance to marine mammals or sea turtles during project activities.

2 Project Description and Location

The purpose of the project was to make improvements at the existing berth and its environs to enable new Vista-class ships to safely moor and be serviced. Also, the Project was designed to resolve safety issues related to vessel mooring. The improvements will more effectively accommodate the home-porting of the 4,008-passenger Carnival *Panorama* at POLB, which began berthing in Long Beach in 2019. This is the first new Carnival ship based in Southern California in 20 years, providing additional economic growth for the City of Long Beach and the Southern California region. The Carnival *Panorama* replaced the 3,012 Carnival *Splendor*, which was the largest craft operating out of Carnival's POLB wharf prior to 2019.

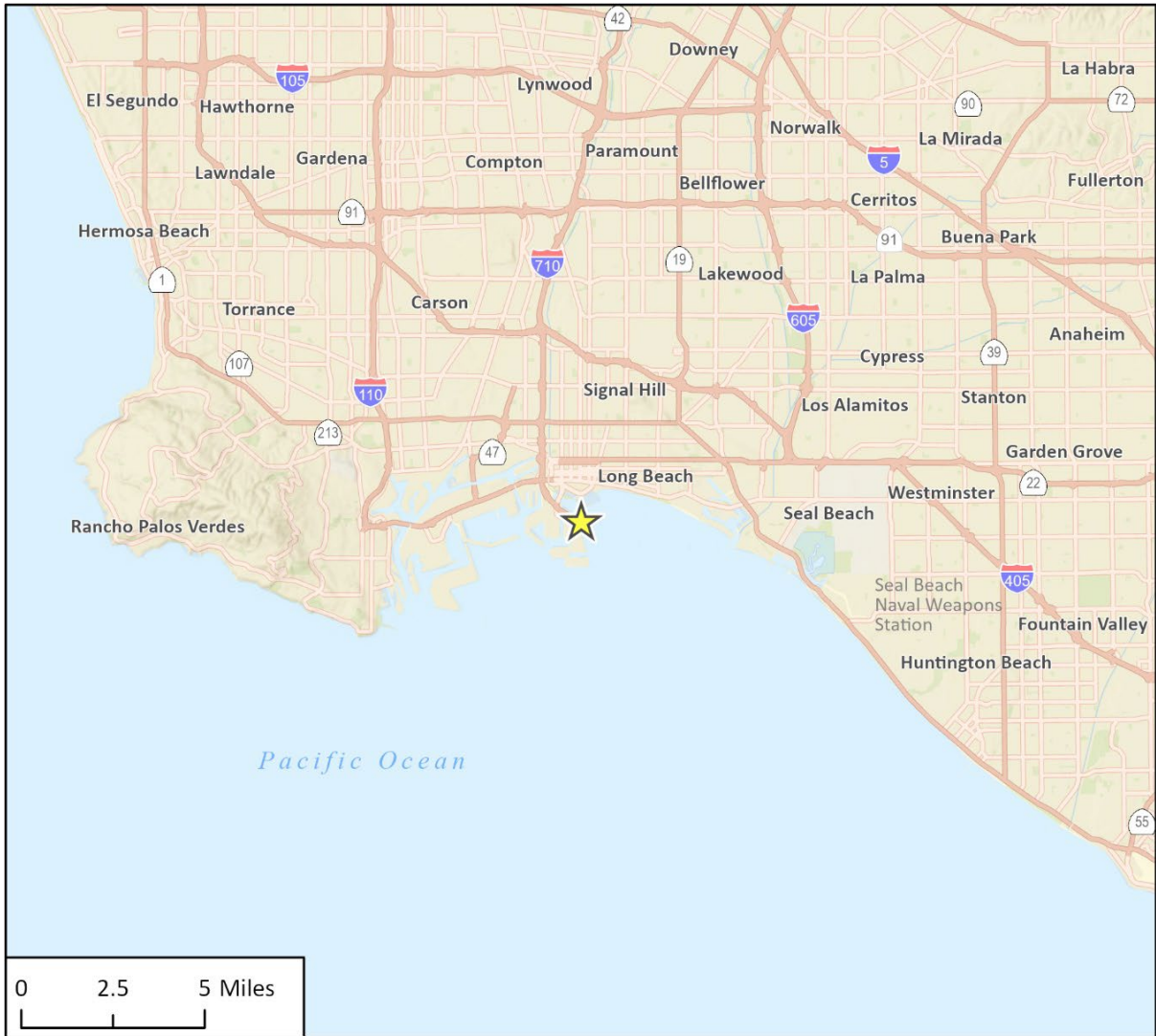
The POLB is located in San Pedro Bay within the southwest portion of the City of Long Beach in southern Los Angeles (LA) County, California. (Figure 1). The POLB is immediately adjacent to the POLA and is described collectively as the Port Complex. The Port Complex has a diversity of outer and inner harbor basins and anchorages that segment the ports into a diversity of both deep and shallow water areas and habitats.

The project area is located adjacent to Royal Mail Ship Queen Mary (Pier J), at Pier H within the Queen Mary Seaport at 231 Windsor Way (Figure 2). The Project included a diversity of improvements to the Cruise Terminal Wharf and facilities to accommodate the larger cruise ships and increased passenger volumes. The primary construction activities potentially affecting sensitive species or habitats included construction of two mooring dolphins, an extension of the central gangway foundation (wharf), and maintenance dredging of areas adjacent to the wharf. The project was segmented into defined construction areas, a staging area, and a dredge footprint (Figure 2).

The laydown yard and staging area was within the cruise terminal and was used to house, coordinate, and transfer building materials and construction crews to the various supporting vessels and barges. Six temporary 20-inch steel pipe piles were driven into soft inner harbor material using a vibratory hammer just seaward of the laydown yard to secure the material and crane barges and a floating dock secured to the most landward piles. This area is described below as the Shoreline Access Area, and PSO monitoring was performed during pile installation and removal.

The construction of the two 38-foot (ft.) by 30 ft. mooring dolphins involved vibratory and impact pile driving of twenty 36-inch steel pipe piles at each mooring dolphin. The construction of the mooring dolphins also involved the vibratory pile driving and removal of nine smaller 16 to 20-inch temporary steel pipe piles used to create a pile driving template at each location prior to placement of the production piles. Each of the mooring dolphins involved the construction of a concrete cap on top of the production steel pipe piles that then supported the installation of three 150 metric-ton single bitt mooring bollards and one capstan on each mooring dolphin. Once the mooring dolphins were completed the construction contractor procured and installed two catwalk walkways connecting the existing mooring dolphins to the new dolphins.

Figure 1 Port of Long Beach and Regional Project Area.



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Bio 19-08462 GHD, LB Carnival Cruise
Fig 1 Regional Location

★ Project Location

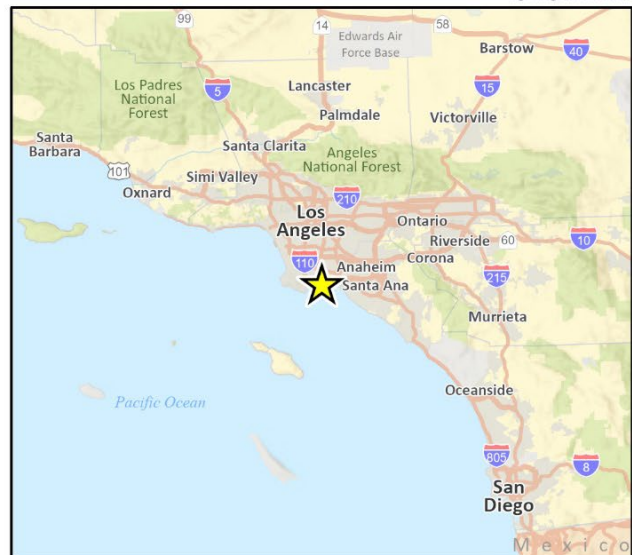
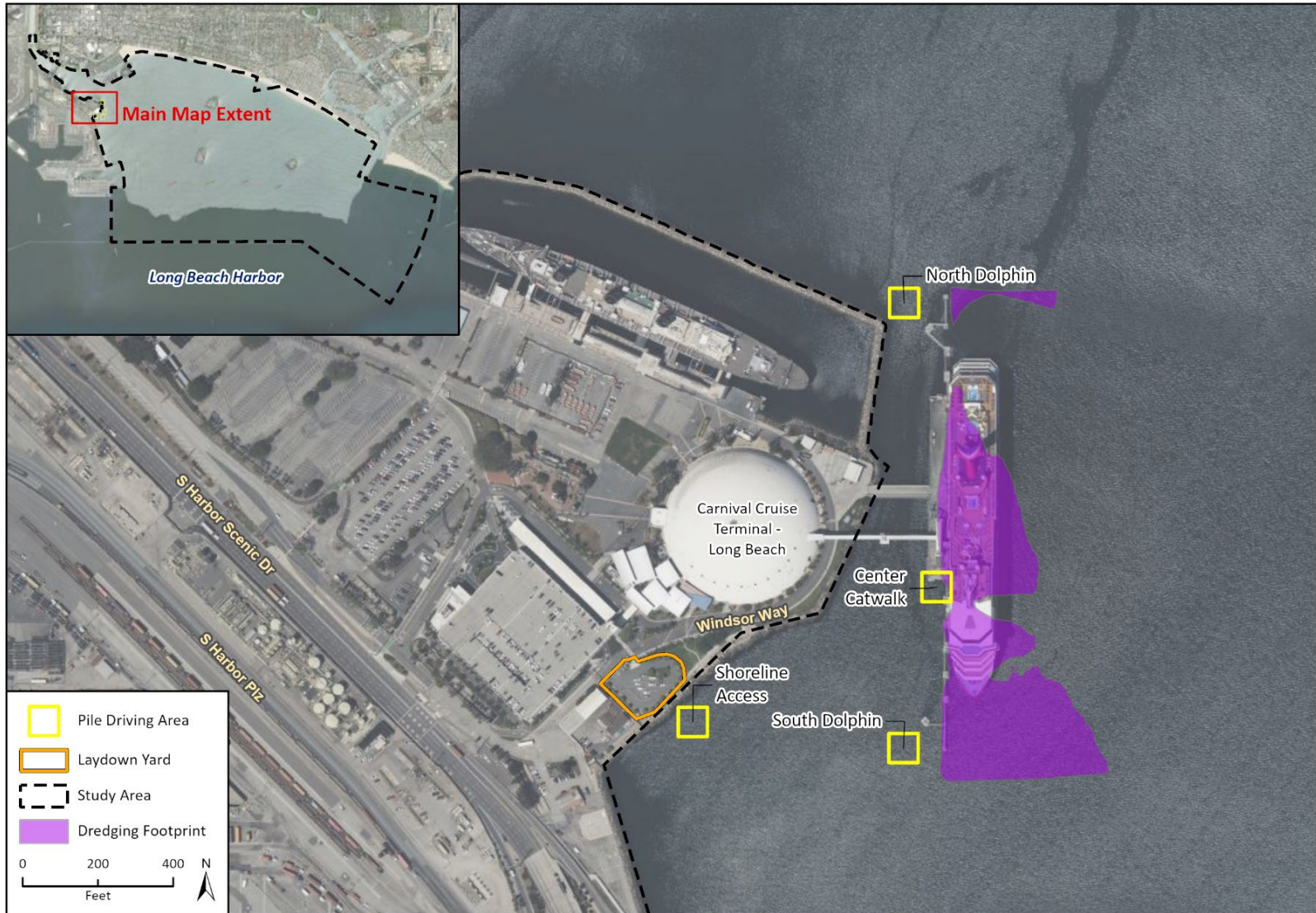


Figure 2 Project Site and In-Water Work Areas.



Bio 19-08482 GHD, LB Carnival Cruise
Fig 2 Study Area

Similar to the construction of the mooring dolphins, a 39.5 ft. by 34.5 ft. concrete foundation (Central Catwalk Extension) was constructed adjacent to the existing wharf to support a new gangway foundation that provided additional access and space to load the large cruise ships. The Central Catwalk Extension foundation was constructed with 9 36-inch steel pipe piles driven to design depth using both a vibratory and impact hammer. The steel pipe piles supported a concrete cap and a new catwalk installed around the new Central Catwalk Extension foundation structure.

The project applied for and obtained an Incidental Harassment Authorization (IHA) from the National Oceanic and Atmospheric Administration (NOAA) National Marine Fisheries Service (NMFS) Protected Species office to allow for the unavoidable incidental take of marine mammals resulting from project improvements that were anticipated to exceed underwater noise thresholds for marine mammals and result in incidental take of select marine mammal species under the Marine Mammal Protection Act of 1972 (MMPA) Section 101 (a)(5)(D). The MMPA permits activities that result in negligible impacts on marine mammals and that do not adversely affect subsistence of the species through the issuance of an IHA permit. The IHA evaluated the project's potential to injure or disturb marine mammals provided estimates of incidental take by species and recommended mitigation measures to minimize take. This report serves as the final report required by the projects IHA and outlines the monitoring methods and results of the projects approved IHA.

The project was designed, constructed, managed, and monitored by a team directed by project proponent and owner Carnival and included engineering design and construction management team members from Atkins Global/Atkins Réalis (Atkins), construction contractor Dutra Construction (Dutra), environmental program management lead GHD Inc (GHD), and protected species consultation and lead compliance monitor Rincon Consultants Inc. (Rincon).

3 Marine Species in the Project Area

3.1 Humpback Whale (*Megaptera novaeangliae*), Eastern North Pacific Stock

In the Pacific Ocean, three separate populations of humpback whale are recognized, based on district winter to spring movements (Allen, Mortenson, and Webb 2011). The eastern north Pacific stock spends a significant time feeding in the coastal waters between Washington and California and have been frequent visitors to the open ocean outside the outer harbor of the POLB (Greenwood et al. 2016, iNaturalist 2019). While two live Humpback whales were specifically observed in the POLA Harbor Breeze Cruises in June 2016 and April 2017 (Happy Whale 2019, OBIS SEAMAP 2019), their potential presence in the project area, inside POLB inner harbor, was determined to be unlikely and their occurrence anticipated based on species migration patterns and habitat utilization (NOAA Fisheries 2023). Monitoring Species code - HBW

3.2 Gray Whale (*Eschrichtius robustus*), Eastern North Pacific Stock

Gray whales from the Eastern North Pacific stock are a common presence in the shallow waters over the continental shelf of North America and Mexico, establishing them as one of the most common coastal great whales occurring around Long Beach Harbor (Jefferson et al., 2008; Jones & Swartz, 2009). Eastern north Pacific Gray whales (Gray whales) seasonally migrate past the POLB, with southward migrations occurring in January and February and movements back to the north in March and April (Olsen & Hildebrand 2012). Jefferson et al. (2015) reported only six Gray whales during extensive warm-season aerial transect monitoring of the Southern California Bight in 2008-2013.

Given the population size and coastal migratory patterns adjacent to the project area, Gray whales were determined to have the potential to transit the coastal waters adjacent to the project area during their seasonal migrations. Their presence during the construction season was expected to be unlikely but not impossible, with at least 19 documented occurrences of Gray whales in the Port Complex documented since 2008. Monitoring Species code - GW

3.3 Common Bottlenose Dolphin (*Tursiops truncatus*) Coastal Form

The Common bottlenose dolphin occurs throughout the world's tropical and temperate seas, but the amount of residency varies tremendously by region (Allen, Mortenson, and Webb 2011). They are commonly found in coastal and continental shelf waters, particularly in tropical and temperate regions across the globe (Jefferson et al., 2008; Wells & Scott, 2009). There is little site fidelity of Common bottlenose dolphins along the California coast; over 80% of the dolphins identified in Santa Barbara, Monterey, and Ensenada have also been identified off San Diego (Defran et al. 1999, Feinholz 1996). In the context of Long Beach Harbor, these dolphins are known to inhabit the area consistently throughout the year.

In the southern California region, including Long Beach Harbor, Common bottlenose dolphins are frequently found within 500 meters (m) of the shoreline 99 percent of the time and within 250 m of the shoreline 90 percent of the time (Carretta et al., 2022; Hanson & Defran, 1993; Hwang et al., 2014). Notably, regular sightings of these dolphins have been reported within POLB and POLA, as part of recurring biological surveys, every 3 years, reflecting their ongoing presence in both POLB and POLA. Monitoring Species code - CBD

3.4 California Sea Lion (*Zalophus californianus*)

The California sea lion, a prominent marine species, is commonly distributed in the eastern North Pacific, spanning from Puerto Vallarta, Mexico, through the Gulf of California, and north along the west coast of North America to the Gulf of Alaska (Barlow et al., 2008; Jefferson et al., 2008; Maniscalco et al., 2004). The current breeding ranges for this species, however, are much smaller extending from Ano Nuevo Island, in central California, south to the tip of Baja California. During the summer months, California sea lions tend to aggregate in proximity to rookery islands and specific open-water areas. Notably, principal rookeries along the U.S. West Coast are situated on San Nicolas, San Miguel, Santa Barbara, and San Clemente Islands, underscoring their pronounced affinity for coastal environs (Carretta et al., 2000; Le Boeuf & Bonnell, 1980; Lowry et al., 1992; Lowry & Forney, 2005).

Within the waters surrounding Long Beach Harbor, California sea lions are routinely observed, both in open ocean and coastal domains (Barlow et al., 2008; Jefferson et al., 2008; Lander et al., 2010). These marine mammals commonly inhabit waters over the continental shelf and slope, evidencing their adaptability to diverse marine habitats.

In the Southern California region, encompassing Long Beach Harbor, California sea lions are frequently sighted offshore during the spring, with peak abundance occurring during the breeding season from May through August (Green et al., 1992; Keiper et al., 2005). Their presence in regional Southern California Ports and harbors tends to peak in the mid to late summer and are the most common marine mammal species interacting with boaters and observed swimming or hauled out in the coastal zone. Their presence augments the marine biodiversity of Long Beach Harbor, contributing to the area's distinctive coastal character. Monitoring Species code - CSL

3.5 Pacific Harbor Seal (*Phoca vitulina richardii*) Eastern Pacific

The Pacific harbor seal, recognized as one of the most widely distributed seals, inhabits a variety of temperate coastal waters across the northern hemisphere, making it a notable presence in the waters surrounding Long Beach Harbor (Jefferson et al., 2008). This coastal species exhibits a preference for proximity to shorelines, seldom venturing more than 12.4 miles (20 kilometers) from the coast and is characterized by a non-migratory behavior (Burns, 2009; Jefferson et al., 2008).

Pacific harbor seals are particularly known for frequenting bays, estuaries, and inlets, aligning with the coastal characteristics of areas like Long Beach Harbor (Baird, 2001). Notably, individual seals have been observed several kilometers upstream in coastal rivers, showcasing their adaptability to diverse aquatic environments (Baird, 2001). Harbor seals accounted for 29.3% of the 1,015 marine mammal observations recorded during the 12 monthly 2018 Biological Surveys of the Los Angeles and Long Beach Harbors (Wood 2021). Pacific harbor seals are most commonly observed resting or foraging along riprap shorelines, particularly the breakwaters of the outer harbor. Monitoring Species code - PHS

3.6 Short-beaked Common Dolphin (*Delphinus delphis*), Central Stock

Common dolphins have the widest distribution of all the whales and dolphins of the world, ranging across all the temperate and subtropical regions and throughout the Pacific, Atlantic, and Indian Oceans (Allen, Mortenson, and Webb 2011). The core range is from southern California south of Point Conception to the tip of Baja and into the Sea of Cortez and south to Central America. In the eastern Pacific NMFS recognizes and manages three stocks, based on distinct breaks in their distributions ranging from British Columbia down to Chile. The central common dolphin resident

stock ranges from Baja California to the Channel Islands, Generally Short-beaked common dolphins inhabit both coastal and oceanic waters of the Pacific, and they occur along the continental slope at depths of 100-200 meters further from shore, and in cooler water, than Long-beaked common dolphins. Both species of common dolphins have been reported in the project vicinity. In general, the Short beaked common dolphin is reported as more abundant than the Long-beaked common dolphin, with the former making up an estimated 72 percent of individuals observed in the Southern California Bight during a 2008-2013 monitoring effort (Jefferson et al. 2015). MBC Applied Environmental Sciences (Greenwood et.al. 2016) reported common dolphins on only 1 of 12 monthly survey events during 2013-2014 studies; a pod of 40 animals was observed in February 2014 in Study Zone 20, on the Port of Los Angeles side. Ocean Biodiversity Information System Spatial Ecological Analysis of Megavertebrate Populations (OBIS SEAMAP) Data has records of the species within 6.7 kilometers (km) southwest of the POLB breakwater and 17.6 km from the Project Area (OBIS SEAMAP 2019). Based on the available information, one or both forms of common dolphins may be present within the Project vicinity, but presence is likely occasional and of short duration. Monitoring Species code - SBCD

3.7 Long-beaked Common Dolphin (*Delphinus capensis*), Central Stock

Long-beaked common dolphins are broadly distributed throughout the warm temperate and tropical coastal oceans of the world, but their distribution is disjointed into regional concentrations with distinct breaks in between (Allen, Mortenson, and Webb 2011). Central California to Baja is one such regional concentration and the Long-beaked Common are associated with warmer and shallow water than Short-beaked common dolphin and are usually seen within 54 miles of the coast and inhabit coastal waters and areas of high relief. Field identification of the two species of Common dolphin in Southern California is difficult and both species have been reported in the Project vicinity. Wood Environmental Solutions and Infrastructure Inc (Wood 2021) reported Common Dolphins on only 1 of 12 monthly survey events during 2018 studies; a pod of 75 animals was observed in October 2018 near the San Pedro Bait Barge in the Port of Los Angeles (Wood 2021). OBIS SEAMAP has records of this species within 22 km northwest of the Port of Los Angeles breakwater and 30 km from the Carnival dock (OBIS SEAMAP 2019). Based on the available information, one or both forms of Common dolphins may be present within the project vicinity, but presence is likely occasional and of short duration. The only known documented occurrences in the Port Complex are from the winter months. Monitoring Species code - LBCD

4 Summary of In-water Construction Activities

4.1 Pile Driving Methods

Pile driving equipment and methods utilized throughout in-water construction activities included the use of bubble curtains, pre-activity monitoring, followed by a “ramp up” or “soft start” techniques for both vibratory and impact pile driving conducted throughout the project. Piles were installed by a crane barge lifting and stabbing them into the seafloor, at preestablished locations, placement of a bubble curtain apparatus around the pile, obtaining clearance from the lead protected species monitor (lead PSO or lead monitor) and initially driving each pile with a vibratory hammer to depth. The “soft start” technique involved the start and stop of vibratory and impact pile driving three times with short delays between each driving event. Temporary (falsework) piles were driven nearly exclusively with the vibratory hammer while all production piles were initially driven to depth using the vibratory hammer and to final design depth using the impact pile driving hammer. The specific size and model of the pile driving equipment and areas are described below in the Vibratory Pile Driving and Impact Pile Driving subsections and in Section 5.3 (Summary of Activity Locations, Dates and Timing). Information on dredging performed as part of the in-water construction activity is provided below in Section 5.2 (Dredging).

4.1.1 Vibratory Pile Driving

Vibratory pile driving took place from a crane mounted on a 188 ft. by 60 ft. crane barge. Vibratory pile driving was used to install and remove each of the 28 temporary falsework and barge piles and for the initial driving of all 49 36-inch steel pipe production piles (production piles). Vibratory pile driving utilized an American Pile Driving Equipment, Inc (APE) model 200-6 Vibratory Driver/Extractor coupled with a Model 700 Power Unit. The driving force of the Model 200-6 Vibratory Driver/Extractor is 231 metric tons (APE 2011). Vibratory pile driving was the principal method used for all pile driving and pile extraction and allowed for small scale adjustments to pile location. A bubble curtain was used during all vibratory pile driving activities, and a soft start procedure was used at the start of pile driving, after non-pile driving periods greater than 30 minutes and following any shutdowns due to the presence of protected species. The purpose of the soft start was to warn protected species potentially in the area and provide sufficient time for them to leave the project area and avoid any potential injury. The soft start included an initial set of low power vibratory driving actions lasting 3-10 seconds, followed by a 20-40-second waiting period, then two subsequent vibratory driving actions.

4.1.2 Impact Pile Driving

Impact pile driving took place from the same crane barge as vibratory pile driving and was implemented during the final stages of pile driving or when refusal was experienced during vibratory driving. Impact pile driving utilized a Delmag D100 hammer rated at 265,520 ft. lb. at maximum setting and 157,840 ft. lb. at minimum setting. A bubble curtain was used during all impact pile driving activities and a soft start procedure was used at the start of each impact pile driving event regardless as to if a soft start was performed for vibratory pile driving, after non-pile driving periods greater than 30 minutes and following any shutdowns due to the presence of protected species. The purpose of the soft start prior to impact pile driving was to warn protected species, potentially in the area, and provide sufficient time for them to leave the project area and avoid any potential injury. The soft start included initial dead blows (no power) lasting less than a second, followed by a 20 to 40-second waiting period, then two subsequent dead blows before full power impact pile driving was initiated.

4.2 Dredging

Dredging was performed in areas immediately adjacent to the existing Carnival wharf by Manson Construction Inc. using a clamshell dredge and multiple dump scows to move the dredge material to the approved offshore disposal site (Figure 2). Dredging was conducted 24 hours per day, Monday through Thursday, or during nighttime hours to avoid conflicts with the presence of Carnival cruise ships at the terminal. The Clamshell dredge was powered by a shore based electrical connection, as stipulated by project permits, and protected species observers were present during all dredging activities and positioned on the elevated Carnival terminal boarding gangway in the center of the project area. Dredging occurred from July 5th to July 18th, 2023, for a total of 6 days.

4.3 Summary of Activity Locations, Dates and Timing

The sequencing of in-water construction activities involved the initial placement and vibratory pile driving of barge piles (BP), falsework piles (FP) and production piles (PP) followed by the impact pile driving of the production piles, with exception. All BP and FP piles were 16 to 20-inch steel piles, and all production piles were 36-inch steel pipe piles. Vibratory pile driving for the installation of all BP, FP and PP piles was conducted for a total of 27 days from March 8th to May 8th, 2023. Impact pile driving was conducted for a total of 12 days from March 29th to May 9th, 2023, and was used nearly exclusively on production piles to achieve design depth and validate structural bearing capacity. Following the placement of all the production piles construction crews affixed rebar cages to the PPs and constructed wooden forms around each of new platforms to support concrete placements. Dredging was performed for a total of 6 days from July 5th to July 13th, 2023. Following the completion of dredging and concrete work at each of the work areas, vibratory pile removal was conducted for a total of 7 days from September 25th to October 5th, 2023, for the removal of FP and then BP piles. Details of the specific workdays and locations are further described below.

4.3.1 Mobilization and Shoreline Access

Project related site work including construction mobilization and monitoring began on Week 2, February 27th through March 2nd, 2023, with a pre-construction monitoring survey of the study area performed by 10 NMFS approved Protected Species Observers (PSOs), implementing the projects approved monitoring methods, on March 6th, 2023. The pre-activity survey provided an opportunity to collect baseline data on protected species, test communication and data collection protocols, train support personnel, and perform operational and quality control data checks on protected species sightings recorded on electronic data forms. The Workers Environmental Awareness Program (WEAP) training was conducted by Rincon multiple times with PSOs and other project monitoring staff obtaining training during Week 1, February 20th through 24th, 2023. During Week 2 the WEAP training and project kick off was presented to the construction contractor (Dutra), engineering team (Atkins), Carnival, and the environmental program management team (GHD). The various stakeholders and on-site staff obtained WEAP training either remotely or in person on March 6th or 7th, 2023. No in-water construction work requiring monitoring was conducted during the first two weeks of the project through March 3rd, 2023.

In-water construction began the week of March 6th, 2023, with the movement of equipment to the on-site laydown yard and preparation/loading of Dutra's crane and material barges. In-water construction requiring monitoring started on Wednesday March 8th and proceeded through the end of Week 3 of construction. In-water construction work involved the setup of a floating dock with shoreside access, barge mooring placement, and pile driving of temporary piles to support the mooring of barges and secure a floating dock. In-water construction the week of March 6th involved

the placement and vibratory pile driving of six temporary barge piles to support Dutra's work barges and floating dock to provide access to the shoreside laydown yard (Figure 2). No in-water construction requiring monitoring was conducted on Monday or Tuesday March 6th or 7th, 2023 with the first day of pile driving and in-water activity monitoring occurring on March 8th, 2023. Seven PSOs recorded sightings from the project area during in-water construction each day. During Week 3 in-water construction activities involved work on piles BP1 – BP6. Only vibratory pile driving was conducted each day with pile driving durations mostly limited to less than 2 minutes per event. A soft start was conducted at the start of each vibratory pile driving action and included three short (5-15 second) vibratory actions with integrated stand down times before the piles were installed to the desired depth using the vibratory hammer. Soft starts occurred prior to vibratory pile driving each day or when greater than 30 minutes transpired between pile driving events.

4.3.2 Central Catwalk Extension Construction

Falsework and Production Pile Driving

In-water construction work involving pile driving of FP at the Central Catwalk Extension (Central Catwalk), located adjacent to the central inshore portion of the existing Cruise Terminal Wharf began during Week 3, March 13th through 17, 2023 (Figure 2). In-water construction in Week 3 involved the placement and vibratory pile driving of seven temporary FPs to provide a foundation for the construction of a production pile template. The FPs placed during Week 3 were connected with H piles and a wooden framework constructed to facilitate production pile placement.

In-water construction work for Week 4, March 20th through 24th, 2023, involved one day of monitoring and one stand-by day where no piles were installed. Monitoring started on March 21st from 0800-0830. At 0830, it was determined that weather conditions were too severe to conduct pile installation and monitoring conditions became unsafe. All crew and PSOs were instructed to stand-by at 0830 and Dutra officially canceled work for the day at 0840. Rain and high winds continued through March 22nd, 2023, and Dutra decided to postpone the pile installation until Tuesday March 28th, 2023.

Central Catwalk pile driving continued into Week 5, March 27th through 31st, 2023, and involved 3 days of monitoring and one cancelled day of work due to contractor equipment failure. Week 5 activities included both vibratory and impact pile driving. Impact pile driving included the use of a pile driving analyzer (PDA) consistent with engineering and design specifications. Following the use of the PDA on March 29th the contractor stood up five production piles and began vibratory pile driving. Completion of the installation of the Central Catwalk production piles occurred during Week 6, April 3rd through 7th, 2023, and involved 2 days of impact pile driving.

Falsework Pile Removal

In-water construction work for Week 13, October 2nd through 5th, 2023, involved 3 days of falsework vibratory pile removal at the Central Catwalk. Monitoring was conducted during each day of Central Catwalk pile removal.

4.3.3 South Dolphin Construction

Falsework and Production Pile Driving

In-water construction work for Week 6, April 3rd through 7th, 2023, involved 3 days of monitoring and two cancelled days of work due to contractor equipment failure. Monitoring was conducted on

April 3rd through 5th, 2023 using both vibratory and impact pile driving to install falsework piles at the Southern Mooring Dolphin location and probe for rock and debris at the Northern Morning Dolphin location late on Wednesday April 5th. During driving on Wednesday April 5th, the barge crane experienced some technical issues and the crane shutdown for inspection. Further pile driving work scheduled for the later part of Week 6, and the initial 3 days of Week 7 were cancelled due to crane repairs and the contractors need to shift priorities.

Work for Week 7, April 10th through 16th, 2023, involved 2 days of monitoring and three cancelled days of work due to contractor equipment failure and template work. No monitoring was conducted Monday, Tuesday, or Wednesday April 10th, 11th, or 12th, 2023, as the contractor had mechanical issues with the barge crane and shifted work to construction of the South Dolphin template construction. Monitoring was conducted on April 13th and 14th, 2023 and included monitoring of both vibratory and impact pile driving of falsework piles at the Southern Mooring Dolphin.

Falsework Pile Removal

In-water construction work for Week 12, September 25th through 29th, 2023, involved 4 days of monitoring with the first two days involving falsework vibratory pile removal at the South Dolphin. Monitoring was conducted during each day of South Dolphin falsework pile removal.

4.3.4 North Dolphin Construction

Falsework and Production Pile Driving

In-water construction work for Week 10, May 1st through 7th, 2023, involved 4 days of monitoring. Work included monitoring of both vibratory and impact pile driving of falsework and production piles at the Northern Mooring Dolphin location. Work for Week 11, May 8th through 14th, 2023, involved 2 days of monitoring. Work for Week 11, May 8th, and 9th, 2023, included monitoring of both vibratory and impact pile driving on May 8th with seven PSOs recording sightings from the project area all day and on May 9th for just impact pile driving with four PSOs recording sightings from the project area all day. Pile driving included the completion of installation of falsework and production piles at the Northern Mooring Dolphin location. Week 11 concluded with the installation of all falsework and production piles at each of the four work areas.

Falsework Pile Removal

In-water construction work for Week 12, September 25th through 29th, 2023, involved 4 days of monitoring. No monitoring was conducted after Wednesday September 27th, as the contractor was moving and unloading falsework piles removed from the South Dolphin mooring structure. Additional monitoring was required when the falsework piles are removed with a vibratory hammer. Monitoring was conducted on September 25th, 26th, 28th, and 29th 2023 and included monitoring of vibratory pile removal at the North Dolphin and Central Catwalk.

4.3.5 Dredging

The projects dredging activities were conducted under U.S. Army Corps of Engineers (Corps) Permit SPL-2019-00331 dated December 19, 2019, and amended on October 1, 2021. The dredging included the deepening of the existing berth from the current design depth of - 30 ft. Mean Lower Low Water (MLL W) plus 1 foot of over-dredge to a new design depth of - 36 ft MLL W plus 1 foot of over-dredge for a total depth of - 37 ft MLL W. The estimated dredging volume was approximately 23,782 cubic yards (cy) from a 9-acre area (Figure 2). The equipment used for the dredging

operations included a barge with electric clamshell dredge and two tugboats and two hopper barges. Active dredging was conducted for 6 days from July 5th to July 13th, 2023, with biological monitors on site at all times. Dredging was conducted during both day and nighttime hours Monday through Thursday at the approval of the Corps. The project included the disposal of approximately 33,250 cy of dredged silt and sand from the berth at the LA-2 Offshore Disposal Maintenance Dredging Site and transported via hopper barges towed by tugboats.

5 Monitoring Methods

5.1 Summary of Monitoring and Mitigation Implementation

Prior to the start of in-water construction activities and PSO monitoring, Rincon conducted a comprehensive on-site kickoff meeting at the Carnival main office in POLB. The kickoff included key personnel from all the supporting and participating stakeholders and covered roles and responsibilities, logistics, security, training, permit requirements, notifications, and reporting. During the kickoff meeting, Rincon reviewed all the IHA mitigation measures including preconstruction and post construction surveys, soft starts, bubble curtain implementation, activity shutdowns, and monitoring requirements. Rincon conducted multiple in person and virtual training and information meetings including officially presenting the project WEAP, communications, data collection, reporting, data processing, notifications, and timing of weekly reports, team meetings, and lookahead schedules.

Protected species (marine mammals and sea turtles) monitoring was performed consistent with the project's approved IHA and integrated monitoring plan (Carnival 2019). PSOs submitted resumes to NOAA NMFS for approval and qualified observer resumes documented training and experience in marine species identification and behavior. Protected species monitoring was conducted by PSO's during project activities for 8 to 12 hours per day, Monday through Friday, during March, April, May, July, September, and October of 2023 for a total of 44 monitoring days.

Monitoring was conducted during all pile driving and dredging operations and implemented the project's IHA prescribed monitoring methods. During vibratory pile driving activities, monitoring was performed by seven PSOs including three land-based PSOs (P1- P3) and four vessel-based PSOs (P4-P7) located within the immediate project area and near the openings to Long Beach Harbor (Harbor) (Figure 3). During impact pile driving, only four PSOs were required with vessel-based PSOs (P5-P7) not required due to reduced acoustic zones of influence (ZOI) (Figure 4). During dredging only one PSO performed monitoring to address specific requirements for green sea turtle (*Chelonia mydas*) monitoring stipulated in the projects Corps Permit SPL-2019-00331 (Figure 5). During all PSO monitoring, the Lead PSO (PSO 1) was positioned in a central location on the Carnival Cruise Terminal wharf during monitoring activities and immediately adjacent to the pile driving crane barge and dredging operations. The Lead PSOs position shifted based on the different pile driving locations, other in-water action areas, and their ability to view the areas surrounding the individual pile being driven or removed, dredging locations, or visual obstructions during any specific in-water activity.

During all PSO monitoring, a Lead PSO served as the primary point of contact for the other PSOs and led communications with the construction crew, Carnival, construction managers, and PSO's. The Lead PSO attended early morning tailboard and safety meetings, led by the construction superintendent, with topics including safety, planned work areas, PSO mobilization, and monitoring. The Lead PSO provided all PSOs with mobilization and demobilization instructions by Very High Frequency (VHF) radio and group text message communications. PSO monitoring began approximately 30 minutes prior to in-water project activities (pre-construction survey) and stopped 30 minutes after project activities were completed for the day (post-construction survey). The Lead PSO was responsible for collecting activity start/end times, as well as shutting down construction when an animal entered the species-specific shutdown (exclusion) zone. All other PSOs were responsible for identifying, recording, and tracking protected species within their respective monitoring zones and relaying animal positions to each other and to the Lead PSO if animals moved toward the shutdown zones.

Figure 3 Monitoring and Exclusion Zones for Vibratory Pile Driving.



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Bio 19-08482 GHD, LB Carnival Cruise
 Fig 3 Monitoring and Exclusion Zones Vibratory Pile Driving

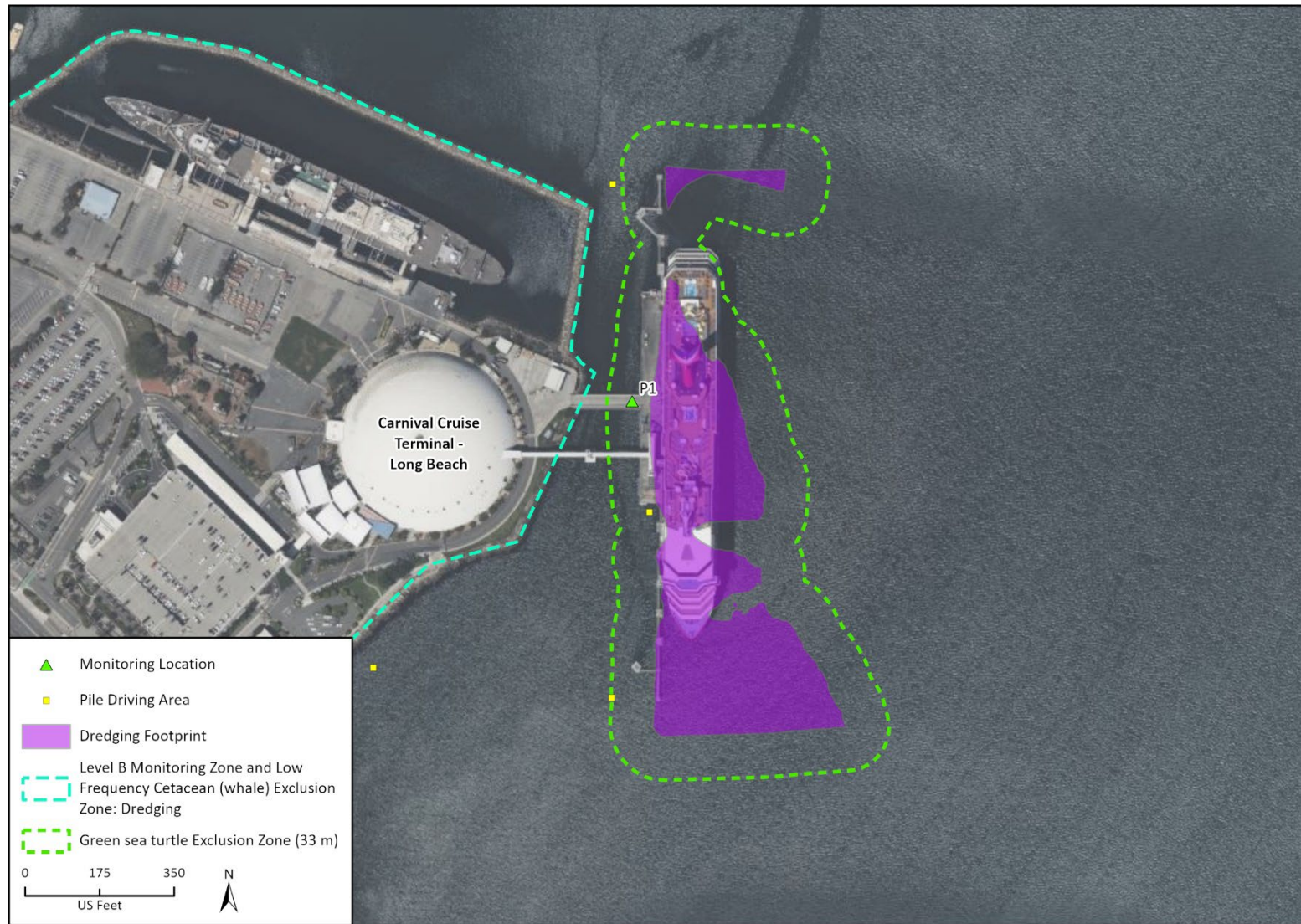
Figure 4 Monitoring and Exclusion Zones for Impact Pile Driving.



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Bio 19-08482 GHD, LB Carnival Cruise
 Fig 4 Monitoring and Exclusion Zones Impact Pile Driving

Figure 5 Monitoring and Exclusion Zones for Dredging.



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Bio 19-08482 GHD, LB Carnival Cruise
Fig 5 Monitoring and Exclusion Zones Dredging

Standard PSO observation methods were implemented to record the presence of protected species, as well as primary behavior and document any reactions to project related activities. Marine species identifications and sightings were recorded using an Android or IOS-based tablet and custom Survey 123 field form.

The exact position of each individual protected species was determined each day through post processing by the GHD database manager based on the distance and bearing of the observed protected species from the location of the PSO and the project activity.

The Lead PSO was primarily responsible for collecting activity start/end times, recording alerts and shutdowns, and serving as the central communication hub among PSOs and the construction crew. Raw sighting data is presented in Appendix A (Protected Species Sighting Data) and Appendix B contains all daily monitoring activities. Each PSO also recorded weather parameters (e.g., percent cloud cover, sea state, air temperature, wind speed and direction, and visibility) three times per day. Daily weather conditions during monitoring were collated from information collected by the Lead PSO and are presented in Appendix C (Daily Survey Data).

5.2 Monitoring and Exclusion Zones

Monitoring and exclusion zones are acoustic zones of influence (ZOI's) that represent hydroacoustic and airborne sound pressure level (SPL) thresholds for each of the different marine mammal hearing groups and represents either the radial distance at which protected species may experience Level A (injury) or Level B (harassment) SPL's that elicit take under the MMPA. In cases where no take of a specific marine mammal species is approved, the ZOI for both Level A and Level B are the same. The exclusion or shutdown zone establishes areas where cessation of project related activities was required to comply with the projects IHA take approvals.

Various communication and monitoring strategies were implemented to avoid protected species takes including alerts and shutdowns. An alert was a verbal communication, via VHF radio, to the construction crew and PSOs that notified everyone that a protected species was approaching the species-specific exclusion zone. The alert process was implemented into the monitoring procedures to provide an early warning mechanism to the construction crew and increase the intensity and number of PSO's monitoring a specific area or animal. When a protected species approached its species-specific exclusion zone, an alert was communicated by the observing PSO and then the Lead PSO would notify the construction crew and other PSOs with specific details on the animal's location, activity, and bearing relative to the in-water activity. In cases where the animal continued to approach the exclusion zone the Lead PSO or other PSO would then call for a shutdown and the project activities immediately stopped. For the monitoring program both alerts and shutdowns were recorded on separate data forms and utilized to provide details of the sequencing of the observation(s), communications, notifications, and stop work actions. The monitoring and exclusion zones were adjusted daily based on project activities with PSOs utilizing range finders to determine water or land-based references to define approximate ZOI's for each functional hearing group and activity. Radial distances of monitoring and exclusion zones for in-water project activities and species/hearing groups are presented in Table 1.

Table 1 Radial Distance to Monitoring and Exclusion Zones.

Species	Hearing Group	In-water Activity					
		Impact Pile Driving		Vibratory Pile Driving		Dredging	
		Level B (Harassment Take) Monitoring Zone Meters	Level A (Injury Take) Exclusion Zone Meters	Level B (Harassment Take) Monitoring Zone Meters	Level A (Injury Take) Exclusion Zone Meters	Level B (Harassment Take) Monitoring Zone Meters	Level A (Injury Take) Exclusion Zone Meters
Pacific Harbor Seal	Phocid Pinniped	300	120	8100	50	100	10
California Sea Lion	Otariid Pinniped	300	10	8100	10	100	10
Short-beaked Common Dolphin	Mid Frequency Cetacean	300	10	8100	10	100	10
Long -beaked Common Dolphin	Mid Frequency Cetacean	300	10	8100	10	100	10
Common Bottlenose Dolphin	Mid Frequency Cetacean	300	10	8100	10	100	10
Gray Whale	Low Frequency Cetacean	300	300	8100*	8100*	100**	10**
Humpback Whale	Low Frequency Cetacean	300	300	8100*	8100*	100**	10**

*The exclusion zone for Gray and Humpback whales was for the Vibratory Hammer ZOI. The ZOI was also used as the exclusion zone during all pile driving, as the two activities occurred in close temporal succession.

**Although IHA does not require monitoring for dredging, USACE guidance for the Project did require monitors.

An onsite monitor was present to observe dredge activities for Green sea turtles within 33 meters (100 feet) of the dredge. Marine mammals were also monitored simultaneously during the same time periods.

Marine mammals affected by specific hydroacoustic sound thresholds are arranged into functional hearing groups based on their generalized hearing sensitivities: low-frequency (LF) cetaceans (baleen whales: Gray whales), mid-frequency (MF) cetaceans (Common dolphins and Common bottlenose dolphins), otariids and other non-phocid pinnipeds (California sea lions), and phocids (Pacific harbor seals)

The monitoring and exclusion ZOI areas and distances for vibratory pile driving activities are shown in Figure 3 and for impact pile driving activities in Figure 4. Monitoring zones for both impact and vibratory pile driving were conservatively determined for 36-inch steel production pipe piles but also applied for the installation of the 16 to 20-inch FP piles driven during template construction at each of the primary production pile driving locations. The monitoring and exclusion ZOI areas and distances for dredging are shown in Figure 5. The project area was divided into four separate zones, and shutdown zones established based on pile driving method and where the pile was being driven. To determine if behavioral harassment (Level B) take occurred during pile driving activities, the construction activity logs, recorded by the Lead PSO, were cross referenced with PSO electronic data forms. The Lead PSO collected detailed electronic data logs of the timing pile driving activities, including pre-construction, soft starts, pile driving start and stop times, standby times and postconstruction monitoring. The two electronic data sets were post processed daily to associate each observation with a specific activity, pile number, and pile zone for analysis of take. Once animal sightings during active pile driving were cross-referenced against the pile driving activities, sightings were then plotted on a map and checked against the Level B monitoring zone. If the animal's location was outside of the monitoring zone, then it was not deemed a take, even if it had occurred during pile driving. If the animal was located inside of the monitoring zone and during active pile driving, then it was deemed a take.

5.3 Shutdown Procedures

Multiple shutdown ZOIs were applicable during monitoring based on the type of in-water activity and protected species. The exclusion or shutdown zones during pile driving ranged from 10 to 8100 meters and during dredging from 10 to 100 meters. Monitoring integrated a two-step shutdown process that included an alert and then a shutdown. The alert process and communications are described above in Section 6.2. Shutdown procedures included the observation of a protected species approaching or swimming in the direction of species exclusion zone for a specific activity and a PSO contacting the Lead PSO on VHF radio and communicating the animal species, proximity to the exclusion zone, and range and bearing of the species in relation to the exclusion zone. The Lead PSO would then call the pile driving foreman on a separate channel dedicated VHF to prepare to stop or delay the start of the activity. The processes of communicating and notifying the pile driving foreman of a potential shutdown was considered an alert. Once the Lead PSO notified the pile driving foreman to stop work or not to start new work, the action was considered a shutdown or delay and the notification logged on a separate and unique electronic data form. The shutdown remained in effect until the protected species was observed leaving the exclusion zone, confirmed to be moving away from the exclusion zone, or 15 minutes passed without a resighting of the animal. If a shutdown occurred, the activity implemented a soft start prior to resuming the activity at full power or scope.

6 Monitoring Results

6.1 Marine Species

Protected species monitoring was performed during all project pile driving and dredging activities with PSO’s recording a total of 783 species sightings encompassing five marine mammal species and Green sea turtles. The most sighted species was the California sea lion (310 individuals) followed by the Common bottlenose dolphin (211 individuals). The total number of sighted individuals for each species is summarized by construction activity in Table 2. Of the 783 animals sighted 221 were a resighting of the same animal(s) recorded by the same or different PSO (Table 3). No Level A take or unapproved Level B take of protected species was recorded or observed during project monitoring activities.

Table 2 Protected Species Sightings During Monitoring.

Protected Species	Construction Activity									
	Pre-Construction	Soft Start Impact	Soft Start Vibratory	Pile Driving Vibratory		Pile Driving Impact		Standby	Post Construction	Dredging
				16-20-inch	36-inch	16-20-inch	36-inch			
Coastal bottlenose Dolphin	81	0	0	25	15	0	2	179	18	1
California sealion	94	0	5	11	36	2	17	215	28	2
Green sea turtle	1	0	0	0	0	0	0	2	0	0
Humpback whale	0	0	0	0	0	0	0	0	0	0
Grey whale	0	0	0	0	0	0	0	10	0	0
Long-beaked common dolphin	0	0	0	0	0	0	0	0	0	0
Pacific Harbor Seal	7	1	0	3	0	2	3	15	0	0
Short-beaked common dolphin	0	0	0	0	0	0	0	8	0	0

Table 3 Summary of Sightings, Animals and Level B Take.

Number of	Protected Species						All Species
	California sea lion	Common bottlenose dolphin	Pacific harbor seal	Short-beaked common dolphin	Gray whale	Green sea turtle	
Sightings	410	321	31	8	10	3	783
*Animals	310	221	24	8	2	2	567
Level B Take	46	25	3	0	0	0	74
Level A Take	0	0	0	0	0	0	0

*Animals represents the total number of sightings minus the same animals being resighted

6.1.1 Common Bottlenose Dolphin, California Coastal Stock

A total of 321 Common bottlenose dolphins were sighted during project monitoring efforts (Table 2). Of the 321 sighted CBD, 97 represented animals resighted by the same or other observers during the same day (Table 3). A total of 42 CBD was sighted during pile driving times (Table 2). The CBD was the most resighted protected species observed during monitoring and was commonly observed multiple times near the harbor entrances, along the shorelines, and within the Los Angeles River Channel (Figure 6). Most CBDs were observed greater than 1000 m from the project area with sightings averaging greater than 3100 m from project activity areas (Figure 6). Overall, CBD sightings were recorded primarily during non-activity times, pre/post-construction, or delay and standby times, when the construction crews were adjusting equipment in preparation of pile driving (Table 2). Level B take of CBD totaled 25 individuals with several of the takes representing groups of animals (Table 3). Level B takes were primarily attributed to vibratory pile driving based on approved IHA take thresholds and was attributed to conservative vibratory pile driving Level B ZOIs encompassing nearly all of Long Beach Harbor (Figure 2).

6.1.2 California Sea Lion, U.S. Stock

A total of 410 California sea lions were recorded during project monitoring efforts (Table 2). Of the 410 animals, 71 were observed during pile driving and 309 during pre-construction or standby times (Table 2). The CSLs were the most common protected species observed during monitoring and represented the greatest threat of entering the 10 m exclusion zone around individual pile driving locations and applicable to all protected species (Figure 7). Most of the CSLs were observed within 1000 m of the project area, along the shoreline, or adjacent to the floating bait barge on the eastern extent of the monitoring zone (Figure 7). Over one third of CSL sightings were within 500 m of project activity areas (See Appendix A). Overall, the majority of CSL sightings were recorded during non-activity times, pre/post-construction, or delay and standby times, when the construction crews were making adjustments to equipment in preparation of pile driving (Table 2). Level B CSL take totaled 46 CSL, based on approved IHA take thresholds, and total take primarily attributed to conservative vibratory pile driving Level B ZOIs and the extended duration of vibratory pile driving activities needed to complete the project (Table 3). The occurrence of CSL near in-water project activities delayed the start of work on a few occasions but never resulted in a shutdown during active pile driving, removal, or dredging.

6.1.3 Short-beaked Common Dolphin, California/Oregon/Washington Stocks

A total of eight short-beaked common dolphins were recorded during project monitoring efforts (Table 2). The eight animals were observed in two sightings during standby times. The SBCB was observed at approximately 600 to 800 meters from project activities in the Los Angeles River channel just north of the main project location (Figure 6). No alerts, shutdowns, or Level B take occurred due to the presence of SBCD during project activities. The presence of SBCD was based on very short sighting instances and confirmed identifications were based on limited information and only one PSO observation per group of animals.

6.1.4 Long-beaked Common Dolphin, California Stock

No long-beaked common dolphins were recorded during project monitoring efforts (Table 2). The absence of LBCD was likely a result of the enclosed nature of the monitoring area or the identification of LBCD as SBCD. No alerts, shutdowns, or Level B take occurred due to the presence of LBCD during project activities.

6.1.5 Pacific Harbor Seal, Eastern Pacific Stock

A total of 31 Pacific harbor seals were recorded during project monitoring efforts (Table 2). Of the 31 animals, 9 were sighted during pile driving and 22 during pre-construction or standby times (Table 2). The PHSs were most commonly sighted adjacent to the shoreline rip rap and break walls, that protect the harbor, with single individuals the most frequently sighted (Figure 8). Most of the PHSs were observed within 1000 m of the project area along the shoreline, near the southern Harbor entrance, or adjacent to the floating bait barge on the eastern extent of the monitoring zone (Figure 8). Overall, the majority of PHS sightings were recorded during non-activity times, pre/post-construction, or delay and standby times, when the construction crews were adjusting equipment in preparation of pile driving (Table 2). Level B PHS take totaled three PHS during vibratory pile driving with no individuals occurring within the 300 m impact pile driving Level B ZOI, during pile driving (Table 3 and Figure 8).

Figure 6 Common Bottlenose Dolphin and Short-Beaked Common Dolphin Sightings and Level B Take in the Project Monitoring Zone.



Figure 7 California Sea Lion Sightings and Level B Take in the Project Monitoring Zone.



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 Fig X Species

Figure 8 Pacific Harbor Seal Sightings and Level B Take in the Project Monitoring Zone.



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 Fig X Species

6.1.6 Gray Whale, Eastern and Western North Pacific Stocks

A total of two Gray whales were recorded during project monitoring efforts with a total of 10 sightings of the two animals recorded (Table 2). Initial sightings of both animals were within closed proximity to work areas and animals tracked and sighted near the harbor entrance (Figure 9). The first GW was observed on March 29th, 2023 at 4:16 PM less than 200 m from the Central Catwalk work area before it turned south and meandered along the western boundary of the harbor approximately 600 m south of the work area, well outside the 300 m exclusion area for impact pile driving. Prior to its sighting, vibratory pile driving occurred from approximately 1:18 to 1:41 PM at the Central Catwalk, nearly 3 hours prior to the initial GW sighting. The GW was observed several more times and sighted at 4:56 PM 600 m south of the work area and shadowed from acoustic propagation from the existing wharf and various shoreline rip rap structures (Figure 9). Observer PSO 5, located near the south entrance of the harbor, communicated at approximately 5:00 PM that the GW was swimming along the western shoreline and headed towards the harbor entrance and completely shadowed from acoustic propagation. The Lead PSO communicated an all clear and an impact soft start performed at 5:03 PM.

The second GW sighting occurred on April 19th, 2023, at 1:13 PM during approximately 200 m from the South Dolphin work area during standby time as construction crews prepared for impact pile driving. The GW was tracked by multiple observers as it moved south along the western boundary of the harbor, similar to the previous GW sighted on March 29th, 2023. The GW was observed by PSO 5 near the south harbor entrance at 1:29 and then again at 1:37 PM well outside of the 300 m impact pile driving exclusion zone and shadowed from acoustic propagation from the existing wharf and various shoreline rip rap structures (Figure 9). The Lead PSO communicated an all clear and an impact soft start performed at 2:23 PM (Appendix B). The two GW were both juveniles and observed during standby times as construction crews prepared the impact pile driving hammer for operation (Table 2 and Appendix A).

In both cases, the GWs were small juveniles less than 12 m in length and approached the project site from the east and were observed turning south towards the southern entrance of Harbor. The GWs were sighted multiple times by several PSOs with the Lead PSO notifying the construction crew of an alert or shutdown and to not begin pile driving until notified. For both GW sightings, an alert was communicated to the construction crew and PSOs with clear direction given to the construction crew to not begin impact pile driving without first receiving an all clear. No take occurred due to the presence of GWs during project activities. The presence of GWs was difficult to detect due to their small size and eastern approach. The observation of very small spouts complicated identification but multiple observer sightings, dives and breaching by the GWs provided clear confirmation of the GW identification. No adult GWs were sighted or reported by site-seeing boats, harbor patrol, or project observers based on follow up communications.

6.1.7 Humpback Whale, Eastern North Pacific Stock

No humpback whales were recorded during project monitoring efforts (Table 2). The absence of HBW was likely due to the monitoring zone not being within their migratory pathway or primary foraging habitat and the enclosed nature of the monitoring area. No alerts, shutdowns, Level A take occurred due to the presence of HBW during project activities.

Figure 9 Gray Whale Sightings.



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 Fig X Species

6.1.8 Green Sea Turtle

A total of three Green sea turtles were recorded during project monitoring efforts (Table 2). The three animals were all observed in the far northeastern end of the monitoring zone near the entrance of Alamitos Bay (Figure 10). One sighting was during pre-construction and two sightings during standby times. The GSTs were observed at approximately 6000 meters during the first month of in-water pile driving and, in an area, documented to support GST foraging and residency (Figure 10). No alerts, shutdowns, take occurred due to the presence of GST during project activities (Table 3). The presence of GST was expected and confirmed identifications were based on limited sightings and within a very concentrated area.

6.2 Shutdowns

No shutdowns were implemented during active pile driving with work delays occurring five times during pile driving and standby times. Notable delays or limitations to initiating pile driving occurred during both of the GW sightings on March 29th and April 19th, 2023, as well as on April 5th, 2023, at 4:07 when a CSL was observed within 100 m of vibratory pile driving. The CSL eventually changed direction and moved out of the area of concern without the stoppage for pile driving activity. On April 19th, 2023, during the later GW sighting, the construction crew was informed to remain on alert following the all-clear to ensure readiness in the event the GW changed direction, or an accompanying adult GW was observed. On May 3rd, 2023, a PHS was observed approximately 500 m from impact pile driving activity and the construction crew was provided an alert that pile driving may need to be halted if the animal further approached the 120 m exclusion zone. The PHS was not observed again.

6.3 Estimated Level B Take

Level B take (take) totaled 74 individual animals with 71 takes attributed to vibratory pile driving and three takes attributed to impact pile driving (Table 3). Of the 71 takes attributed to vibratory pile driving, 25 were CBD, 43 CSL, and 3 PHS (Table 4). All three takes attributed to impact pile driving were CSLs sighted within the 300 m Level B ZOI (Figure 11). Overall Level B take was significantly below the projects allowable take numbers with the 25 CBD takes representing the greatest proportion of allowable take by species (n=20.5%) (Table 4). CSL take was the second largest contributor to take by percentage (n= 1.92%) with take of PHSs representing less than 1 percent of the projects allowable PHS take (Table 4). No take of HBW, GW, SBCB, LBCB, or GST were documented during the monitoring of protected species during project activities (Table 4).

Table 4 Summary of Level B Take by Species.

Activity	Species Code						
	CBD	CSL	HBW	GW	SBCD	LBCD	PHS
Impact Pile Driving	0	3	0	0	0	0	0
Vibratory Pile Driving	25	46	0	0	0	0	3
Dredging	0	0	0	0	0	0	0
Allowable Level B Take	122	2235	0	0	942	942	984
Percentage of Level B Take by Species	20.49%	2.06%	NA	NA	0.00%	0.00%	0.30%

Figure 10 Green Sea Turtle Sightings.



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 Fig X Species

Figure 11 Location of Level B Takes by Activity.



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Fig 11 Takes by Activity

7 Conclusions

Project activities requiring monitoring totaled 46 days including one pre-construction survey day, 6 days of dredging, and 39 days of pile driving. Project activity protected species monitoring was performed consistent with the projects approved IHA monitoring plan and sightings and project activities documented daily by approved PSOs and a Lead PSO on electronic data forms. A combined total of 783 marine mammal and sea turtle sightings were recorded before (preconstruction surveys), during, and after (post-construction surveys) project pile driving and dredging activities in 2023 (Table 2). California sea lions had the most sightings (n=410), representing 52 percent of all sightings. Bottlenose dolphins had the second-highest number of sightings (n=321), representing 41 percent of all sightings. A total of 73 California sea lions, 43 Common bottlenose dolphin, and 24 Pacific harbor seals were observed during pile driving and dredge monitoring between March and October 2023 (Table 2). Of the 783 total marine mammal sightings 122 were observed during active pile driving activities with 27 of them during impact pile driving and 95 during vibratory pile driving.

No Level A (injury) take of marine mammals or green sea turtles occurred during or as a result of project activities and Level B take was significantly below the Level B take allowances approved in the projects IHA (Table 4). Level B take included 45 California sea lions, 25 Common bottlenose dolphin, and three Pacific harbor seals (Table 4 and Figure 11). The Level B ZOI for vibratory pile driving was 8100 m and resulted in Level B takes being applied to an expansive area that encompassed the entirety of Long Beach Harbor (Figure 11). The project pile driving locations were mostly shoreward of the existing cruise terminal wharf and in locations that resulted in the significant reduction of sound propagation spatial effect due to shoreline and structure boundary conditions. To simplify the monitoring areas and estimation of Level B take, the entire monitoring zone was used to determine Level B take when assessing if sightings were within Level B take ZOIs, for vibratory pile driving. In summary, the resulting Level B take is likely an overestimate for each species. Work was delayed five times due to animals approaching or inside exclusion zones with the presence of two juvenile Gray whales on two separate dates representing the most critical events that occurred during project monitoring. California sea lions approached the shutdown zones on three separate occasions but never sighted within 50 m of project activities during pile driving. Other delays or cancellations of monitoring resulted from poor weather conditions (i.e., strong winds).

Project monitoring and activities were implemented consistent with required mitigation and monitoring methods. The bubble curtain was deployed for each pile driving event and the bubble plume round each pile extending greater than 3 to 5 m in radius around each pile during all pile driving actions. The Lead PSO attended daily tailgate meetings with the construction crew, maintained consistent communication and administered the appropriate chain of command throughout the monitoring activities. The Lead PSO and other nearfield PSO's were vigilant when animals were observed approaching species-specific exclusion zones with both land-based and vessel-based PSO's providing an "all clear" prior to the start of each pile driving action. Overall, effective monitoring during pile driving and dredging project activities resulted in no injuries or unapproved protected species disturbances.

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APPENDIX A

Protected Species Sighting Data

Table A-1: Protected Species Sighting Data.

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
3/2/2023 10:14	Erik Mahan	MTS	33.725352	-118.140473	P6	CSL	1	0.0	Pre Survey	NA	NA	NA	Hauled Out	Hauled Out	A	M	No	No	Sunning on bait barge
3/2/2023 10:33	Amber Reichert	Rincon	33.743911	-118.188122	P3	CSL	1	0.0	Pre Survey	NA	NA	NA	Swimming	<Null>	A	Unknown	No	No	<Null>
3/2/2023 10:34	Braden Froble	GHD	32.804065	-117.242593	P2	CSL	1	0.0	Pre Survey	NA	NA	NA	Swimming	Swimming	Unknown	Unknown	Yes	No	<Null>
3/2/2023 10:41	Adam Sachs	Rincon	33.750548	-118.178794	P4	OTHR	1	0.0	Pre Survey	NA	NA	NA	Swimming	Swimming	A	M	No	No	Test Record
3/2/2023 10:45	Adam Sachs	Rincon	33.750548	-118.178794	P4	OTHR	1	0.0	Pre Survey	NA	NA	NA	Swimming	Swimming	A	M	Yes	No	Test Record
3/2/2023 10:55	Erik Mahan	MTS	33.725352	-118.140473	P6	CSL	1	0.0	Pre Survey	NA	NA	NA	Hauled Out	<Null>	A	M	Yes	No	Sunning on bait barge
3/2/2023 11:15	Braden Froble	GHD	32.804065	-117.242593	P2	CSL	1	0.0	Pre Survey	NA	NA	NA	Swimming	Swimming	Unknown	Unknown	Yes	No	<Null>
3/8/2023 7:36	Derek Lerma	Rincon	33.751149	-118.187086	P1	OTHR	0	221.9	Standby	Shoreline Access	33.749502	-118.188427	<Null>	<Null>	<Null>	<Null>	No	No	Test Record
3/8/2023 7:58	Amber Reichert	Rincon	33.744025	-118.188168	P3	CSL	1	620.9	Standby	Shoreline Access	33.749502	-118.188427	Swimming	Milling	Adult(s)	Unknown	No	No	<Null>
3/8/2023 8:45	Amber Reichert	Rincon	33.744025	-118.188168	P3	CSL	1	608.6	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	Other	Adult(s)	Unknown	Yes	No	Swimming back and forth along West edge, from work area (N) to break water (S)
3/8/2023 8:46	Olivia Ramirez	GHD	33.757492	-118.184618	P2	CSL	1	802.7	Standby	Shoreline Access	33.749502	-118.188427	Swimming	Looking	Unknown	Unknown	No	No	<Null>
3/8/2023 8:55	Olivia Ramirez	GHD	33.757489	-118.184598	P2	CBD	1	825.1	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	Spotted fin pop out of water twice heading NE away from construction area
3/8/2023 9:14	Olivia Ramirez	GHD	33.757489	-118.184598	P2	CBD	1	685.1	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	Yes	No	Saw dorsal fin emerge from water briefly.
3/8/2023 9:24	Erik Mahan	MTS	33.725177	-118.140748	P6	CBD	4	5178.6	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	Turned around at the west wall of east gate to head back east
3/8/2023 10:36	Erik Mahan	MTS	33.725177	-118.140748	P6	CBD	4	5178.6	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	Yes	No	Swam to end of western seawall on east gate, turned around and swam back east.
3/8/2023 15:40	Erik Mahan	MTS	33.72531	-118.140487	P6	CSL	1	5191.6	Standby	Shoreline Access	33.749502	-118.188427	Swimming	Looking	A	F	No	No	Seemed considered hauling out on bait barge, and decided to move on
3/8/2023 15:42	Erik Mahan	MTS	33.72531	-118.140487	P6	CSL	1	5191.6	Standby	Shoreline Access	33.749502	-118.188427	Swimming	Looking	A	F	Yes	No	Considered hauling out again but decided to continue moving east
3/8/2023 15:44	Erik Mahan	MTS	33.72531	-118.140487	P6	CSL	1	5191.6	Standby	Shoreline Access	33.749502	-118.188427	Hauled Out	Looking	A	F	Yes	No	Hauled out on bait barge
3/9/2023 7:32	Carter Warwick	ECorp	33.737655	-118.125198	P7	CBD	5	6064.8	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	Milling	Adult(s)	<Null>	No	No	Feeding
3/9/2023 7:34	Adam Sachs	Rincon	33.748946	-118.178497	P4	CBD	3	706.7	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	Milling	Unknown	Unknown	Yes	No	<Null>
3/9/2023 7:34	Olivia Ramirez	GHD	33.757537	-118.184501	P2	CBD	7	923.4	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	Swimming	A	Unknown	No	No	<Null>
3/9/2023 7:37	Erik Mahan	MTS	33.725213	-118.14099	P6	CSL	1	205.3	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	Milling	Juvenile(s)	Unknown	No	No	<Null>
3/9/2023 7:37	Gayle McDermott	Rincon	33.751115	-118.187019	P1	CSL	1	5157.4	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/9/2023 7:48	Amber Reichert	Rincon	33.74458	-118.188371	P3	PHS	1	208.0	Pre Construction	Shoreline Access	33.749502	-118.188427	Looking	Swimming	Adult(s)	Unknown	No	No	Single seal popped up right near pedestrian walkway heading south.
3/9/2023 7:48	Gayle McDermott	Rincon	33.751086	-118.187152	P1	CSL	1	881.5	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	Milling	Juvenile(s)	<Null>	Yes	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
3/9/2023 7:52	Carter Warwick	ECorp	33.737579	-118.125099	P7	CSL	1	5976.0	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	Porpoising	Adult(s)	Unknown	No	No	<Null>
3/9/2023 7:54	Amber Reichert	Rincon	33.744592	-118.188405	P3	CBD	4	864.1	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	Diving	Adult(s)	Unknown	Yes	No	<Null>
3/9/2023 7:57	Gayle McDermott	Rincon	33.751065	-118.187149	P1	CBD	3	174.6	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	Porpoising	Unknown	Unknown	Yes	No	<Null>
3/9/2023 7:58	Amber Reichert	Rincon	33.744585	-118.188409	P3	CBD	2	1050.3	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Adult(s)	Unknown	Yes	No	<Null>
3/9/2023 8:10	Olivia Ramirez	GHD	33.757537	-118.184501	P2	CBD	3	804.9	Standby	Shoreline Access	33.749502	-118.188427	Swimming	Milling	Unknown	Unknown	Yes	No	<Null>
3/9/2023 8:12	Adam Sachs	Rincon	33.749018	-118.178568	P4	CSL	1	916.3	Standby	Shoreline Access	33.749502	-118.188427	Swimming	Swimming	A	M	No	No	<Null>
3/9/2023 8:17	Carter Warwick	ECorp	33.737631	-118.125199	P7	CBD	4	6026.1	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Adult(s)	<Null>	Yes	No	<Null>
3/9/2023 8:18	Carter Warwick	ECorp	33.737655	-118.125198	P7	CBD	5	6537.8	Standby	Shoreline Access	33.749502	-118.188427	Porpoising	Swimming	Adult(s)	<Null>	Yes	No	Part of pod separated and headed East
3/9/2023 8:22	Erik Mahan	MTS	33.725203	-118.141002	P6	CSL	1	5157.1	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/9/2023 8:40	Carter Warwick	ECorp	33.737579	-118.125099	P7	CSL	1	6010.4	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Adult(s)	Unknown	Yes	No	<Null>
3/9/2023 8:44	Gayle McDermott	Rincon	33.75109	-118.187071	P1	CSL	1	210.9	Standby	Shoreline Access	33.749502	-118.188427	Milling	Swimming	Adult(s)	Female(s)	No	No	Popped up near the gangway of cruise ship then swam south.
3/9/2023 8:44	Olivia Ramirez	GHD	33.757555	-118.184496	P2	CBD	2	734.1	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/9/2023 8:55	Amber Reichert	Rincon	33.744577	-118.188376	P3	CBD	2	883.8	Standby	Shoreline Access	33.749502	-118.188427	Swimming	Diving	Adult(s)	<Null>	No	No	<Null>
3/9/2023 8:58	Amber Reichert	Rincon	33.744584	-118.188403	P3	CSL	3	230.5	Pre Construction	Shoreline Access	33.749502	-118.188427	Milling	Swimming	Mixed	Mixed	No	No	<Null>
3/9/2023 8:58	Gayle McDermott	Rincon	33.75118	-118.187015	P1	CBD	3	806.8	Pre Construction	Shoreline Access	33.749502	-118.188427	Swimming	Diving	Adult(s)	Unknown	No	No	<Null>
3/9/2023 9:04	Olivia Ramirez	GHD	33.757542	-118.184478	P2	CBD	1	1084.8	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	On stern of cruise ship
3/9/2023 9:06	Gayle McDermott	Rincon	33.751088	-118.186993	P1	CBD	4	145.3	Standby	Shoreline Access	33.749502	-118.188427	Swimming	Porpoising	Unknown	Unknown	No	No	<Null>
3/9/2023 9:08	Adam Sachs	Rincon	33.748959	-118.177862	P4	CBD	2	982.0	Standby	Shoreline Access	33.749502	-118.188427	Swimming	Swimming	A	Unknown	No	No	<Null>
3/9/2023 9:10	Amber Reichert	Rincon	33.744612	-118.188383	P3	CBD	5	580.5	Standby	Shoreline Access	33.749502	-118.188427	Milling	Diving	Mixed	<Null>	No	No	<Null>
3/9/2023 9:14	Amber Reichert	Rincon	33.744614	-118.188376	P3	CSL	1	408.9	Standby	Shoreline Access	33.749502	-118.188427	Milling	<Null>	Unknown	Unknown	No	No	<Null>
3/9/2023 9:14	Olivia Ramirez	GHD	33.757542	-118.184479	P2	CBD	3	2155.7	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Adult(s)	Unknown	Yes	No	<Null>
3/9/2023 9:25	Gayle McDermott	Rincon	33.751084	-118.187132	P1	CSL	1	199.4	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
3/9/2023 9:28	Gayle McDermott	Rincon	33.751084	-118.187132	P1	CSL	1	182.9	Standby	Shoreline Access	33.749502	-118.188427	Porpoising	<Null>	Adult(s)	Unknown	Yes	No	<Null>
3/9/2023 9:30	Amber Reichert	Rincon	33.744605	-118.188379	P3	CBD	4	1956.4	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Adult(s)	<Null>	Yes	No	<Null>
3/9/2023 9:43	Gayle McDermott	Rincon	33.751106	-118.187125	P1	CSL	1	188.4	Standby	Shoreline Access	33.749502	-118.188427	Milling	<Null>	Adult(s)	Unknown	No	No	Single adult hanging near south end of Carnival ship
3/9/2023 9:47	Amber Reichert	Rincon	33.744614	-118.188379	P3	CSL	1	741.8	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Adult(s)	<Null>	Yes	No	<Null>
3/9/2023 9:48	Gayle McDermott	Rincon	33.751068	-118.187144	P1	CSL	1	142.5	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
3/9/2023 9:50	Gayle McDermott	Rincon	33.751072	-118.187099	P1	CSL	1	114.3	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/9/2023 9:52	Amber Reichert	Rincon	33.744582	-118.188411	P3	CSL	1	453.4	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Adult(s)	<Null>	No	No	<Null>
3/9/2023 10:04	Gayle McDermott	Rincon	33.751073	-118.187096	P1	CSL	1	101.8	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Adult(s)	Unknown	No	No	Single CSL popped up just outside of exclusion zone right as vibratory ended. Began swimming south towards barge.
3/9/2023 10:12	Amber Reichert	Rincon	33.74461	-118.188369	P3	CSL	1	543.9	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
3/9/2023 10:14	Gayle McDermott	Rincon	33.751084	-118.187142	P1	CSL	3	175.2	Standby	Shoreline Access	33.749502	-118.188427	Looking	Swimming	Mixed	Mixed	No	No	<Null>
3/9/2023 10:48	Gayle McDermott	Rincon	33.751173	-118.187071	P1	CSL	1	224.1	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	A	Unknown	Yes	No	<Null>
3/9/2023 10:53	Olivia Ramirez	GHD	33.757507	-118.18446	P2	CSL	1	901.7	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/9/2023 11:50	Olivia Ramirez	GHD	33.757552	-118.184472	P2	CSL	1	1204.2	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/9/2023 11:51	Erik Mahan	MTS	33.725395	-118.140433	P6	CBD	4	5191.1	Standby	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/10/2023 9:20	Gayle McDermott	Rincon	33.75113	-118.187121	P1	CSL	1	223.3	Pre Construction	Center Catwalk	33.750849	-118.187142	Looking	Swimming	Unknown	Unknown	No	No	<Null>
3/10/2023 9:27	Amber Reichert	Rincon	33.745854	-118.189057	P3	CSL	1	412.3	Pre Construction	Center Catwalk	33.750849	-118.187142	Milling	Swimming	Adult(s)	Female(s)	Yes	No	<Null>
3/10/2023 9:27	Amber Reichert	Rincon	33.745854	-118.189057	P3	CSL	1	412.3	Pre Construction	Center Catwalk	33.750849	-118.187142	Milling	Swimming	Adult(s)	Female(s)	No	No	<Null>
3/10/2023 9:46	Olivia Ramirez	GHD	33.757526	-118.184493	P2	CSL	1	945.2	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/10/2023 9:50	Erik Mahan	MTS	33.725265	-118.141105	P6	CBD	4	196.4	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Mixed	Unknown	No	No	Group off four headed in and swam right behind barge and over to floating dock near laydown. Then turned south-southeast towards the harbor entrance.
3/10/2023 9:50	Gayle McDermott	Rincon	33.751123	-118.187078	P1	CSL	1	5145.3	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	J	Unknown	No	No	<Null>
3/10/2023 9:59	Gayle McDermott	Rincon	33.751032	-118.187026	P1	CSL	1	202.6	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Male(s)	Yes	No	<Null>
3/10/2023 12:01	Erik Mahan	MTS	33.725463	-118.141135	P6	CSL	1	5131.5	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/10/2023 12:02	Carter Warwick	ECorp	33.739516	-118.122778	P7	CBD	7	6234.7	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Mixed	<Null>	No	No	<Null>
3/10/2023 12:53	Amber Reichert	Rincon	33.745862	-118.189044	P3	CSL	1	407.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
3/10/2023 21:52	Amber Reichert	Rincon	33.745854	-118.189057	P3	CSL	1	508.4	Preconstruction? or Standby	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Adult(s)	Female(s)	Yes	No	<Null>
3/13/2023 7:58	Gayle McDermott	Rincon	33.751051	-118.187115	P1	CSL	1	122.7	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/13/2023 8:06	Braden Froble	GHD	33.757409	-118.184713	P2	CSL	1	896.8	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	Yes	No	<Null>
3/13/2023 8:21	Braden Froble	GHD	33.757438	-118.1847	P2	CSL	1	718.7	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Unknown	Unknown	No	No	<Null>
3/13/2023 8:26	Gayle McDermott	Rincon	33.751152	-118.186979	P1	CSL	2	149.0	Standby	Center Catwalk	33.750849	-118.187142	Milling	Swimming	Unknown	Unknown	Yes	No	Two individuals popped up just outside of exclusion zone during vibratory pile driving, milled for a moment and then swam south. Also observed by PSO3 at same time.

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
3/13/2023 8:28	Amber Reichert	Rincon	33.745178	-118.188584	P3	CSL	2	1215.4	Standby	Center Catwalk	33.750849	-118.187142	Milling	Swimming	Unknown	Unknown	No	No	CSLs were milling and ~10 min later they were swimming SE.
3/13/2023 8:40	Braden Froble	GHD	33.757406	-118.18471	P2	CSL	1	156.8	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Unknown	Yes	No	Popped up during pile driving outside of exclusion zone and swam south.
3/13/2023 8:40	Gayle McDermott	Rincon	33.751242	-118.186763	P1	CSL	1	744.1	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
3/13/2023 13:40	Gayle McDermott	Rincon	33.751099	-118.187082	P1	CSL	1	178.4	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Juvenile(s)	Unknown	No	No	<Null>
3/13/2023 13:57	Gayle McDermott	Rincon	33.751099	-118.187082	P1	CSL	1	226.4	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Juvenile(s)	Unknown	Yes	No	<Null>
3/13/2023 15:09	Carter Warwick	ECorp	33.73877	-118.12491	P7	CSL	1	6011.2	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
3/14/2023 6:50	Amber Reichert	Rincon	33.745163	-118.18859	P3	CSL	1	482.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Foraging	Adult(s)	Male(s)	No	No	<Null>
3/14/2023 6:50	Amber Reichert	Rincon	33.745163	-118.18859	P3	CSL	1	482.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Foraging	Adult(s)	Male(s)	No	No	<Null>
3/14/2023 6:50	Amber Reichert	Rincon	33.745163	-118.18859	P3	CSL	1	482.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Foraging	Adult(s)	Male(s)	No	No	<Null>
3/14/2023 7:01	Amber Reichert	Rincon	33.745206	-118.188605	P3	CSL	2	557.4	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Unknown	<Null>	No	No	<Null>
3/14/2023 7:01	Amber Reichert	Rincon	33.745206	-118.188605	P3	CSL	2	2671.9	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/14/2023 7:09	Erik Mahan	MTS	33.725418	-118.14076	P6	CSL	1	5085.6	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/14/2023 7:44	Amber Reichert	Rincon	33.745163	-118.18859	P3	CSL	1	558.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Male(s)	No	No	<Null>
3/14/2023 7:44	Amber Reichert	Rincon	33.745163	-118.18859	P3	CSL	1	558.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Male(s)	No	No	<Null>
3/14/2023 7:44	Amber Reichert	Rincon	33.745163	-118.18859	P3	CSL	1	558.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Male(s)	No	No	<Null>
3/14/2023 7:44	Amber Reichert	Rincon	33.745163	-118.18859	P3	CSL	1	558.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Male(s)	No	No	<Null>
3/14/2023 7:55	Gayle McDermott	Rincon	33.751052	-118.187097	P1	CSL	1	621.1	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Unknown	Yes	No	<Null>
3/14/2023 7:59	Sawyer Carman	Rincon	33.750737	-118.18104	P4	CSL	1	251.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Unknown	Unknown	Yes	No	<Null>
3/14/2023 8:38	Sawyer Carman	Rincon	33.750717	-118.180978	P4	CSL	1	643.1	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Milling	Unknown	Unknown	No	No	<Null>
3/14/2023 8:54	Carter Warwick	ECorp	33.738187	-118.124429	P7	CBD	3	6085.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Unknown	No	No	Feeding
3/14/2023 8:56	Amber Reichert	Rincon	33.866409	-117.925373	P3	CSL	1	26830.0	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Male(s)	No	No	<Null>
3/14/2023 9:01	Amber Reichert	Rincon	33.745196	-118.188596	P3	CSL	1	2805.6	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
3/15/2023 7:57	Carter Warwick	ECorp	33.737832	-118.123341	P7	CBD	4	6105.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
3/15/2023 8:18	Carter Warwick	ECorp	33.737805	-118.123364	P7	GST	1	6100.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	<Null>	No	No	<Null>
3/15/2023 11:07	Derek Lerma	Rincon	33.751228	-118.187264	P1	CSL	1	64.9	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Unknown	<Null>	No	No	<Null>
3/15/2023 12:53	Adam Sachs	Rincon	33.745411	-118.188657	P3	CSL	2	603.8	Post Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
3/15/2023 13:18	Adam Sachs	Rincon	33.745411	-118.188657	P3	CSL	2	610.3	Post Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	Yes	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
3/15/2023 14:02	Lewis Koplin	Miller Marine	33.725422	-118.140654	P6	CSL	1	5137.2	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Adult(s)	Male(s)	No	Yes	<Null>
3/15/2023 14:39	Adam Sachs	Rincon	33.745395	-118.18871	P3	CSL	1	607.1	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Porpoising	Swimming	Adult(s)	Male(s)	No	Yes	<Null>
3/16/2023 7:40	Luis Manzo	GHD	33.757455	-118.184718	P2	PHS	1	750.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Haul Out	Unknown	Unknown	No	No	<Null>
3/16/2023 9:23	Amber Reichert	Rincon	33.745171	-118.188576	P3	CSL	1	561.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
3/16/2023 12:02	Amber Reichert	Rincon	33.745176	-118.188601	P3	CSL	1	613.5	Standby	Center Catwalk	33.750849	-118.187142	Diving	Foraging	Adult(s)	Female(s)	No	No	Observed foraging along length of West breakwater.
3/16/2023 13:47	Carter Warwick	ECorp	33.738671	-118.123716	P7	GST	1	6049.1	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
3/17/2023 8:52	Lewis Koplin	Miller Marine	33.725285	-118.14053	P6	CBD	2	5209.0	Soft Start Vibratory	Center Catwalk	33.750849	-118.187142	Porpoising	<Null>	Mixed	<Null>	No	No	<Null>
3/17/2023 9:17	Chris Clark	Six Scientific	33.723936	-118.180119	P5	PHS	1	3008.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Juvenile(s)	Unknown	No	No	<Null>
3/17/2023 9:29	Adam Sachs	Rincon	33.749093	-118.176754	P4	CSL	1	964.8	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Female(s)	No	No	<Null>
3/17/2023 9:40	Carter Warwick	ECorp	33.737935	-118.124644	P7	GST	1	5989.3	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/17/2023 10:09	Lewis Koplin	Miller Marine	33.725353	-118.140558	P6	PHS	1	5187.4	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Adult(s)	Unknown	No	No	<Null>
3/17/2023 10:15	Amber Reichert	Rincon	33.745235	-118.188656	P3	CSL	1	626.2	Standby	Center Catwalk	33.750849	-118.187142	Porpoising	<Null>	Adult(s)	<Null>	No	No	<Null>
3/17/2023 10:19	Gayle McDermott	Rincon	33.751142	-118.186999	P1	CSL	1	616.1	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Porpoising	<Null>	Unknown	Unknown	Yes	No	<Null>
3/17/2023 10:21	Amber Reichert	Rincon	33.745235	-118.188656	P3	CSL	1	613.5	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Diving	<Null>	Adult(s)	<Null>	Yes	Yes	<Null>
3/17/2023 10:28	Gayle McDermott	Rincon	33.751269	-118.18706	P1	CSL	1	48.3	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Male(s)	Yes	No	<Null>
3/17/2023 10:29	Luis Manzo	GHD	33.757552	-118.184616	P2	PHS	1	125.7	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Haul Out	Unknown	Unknown	Yes	No	<Null>
3/17/2023 10:41	Chris Clark	Six Scientific	33.724	-118.180121	P5	CBD	4	2948.3	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
3/20/2023 8:35	Gayle McDermott	Rincon	33.751178	-118.188484	P1	CSL	1	134.1	Pre Construction	Center Catwalk	33.750849	-118.187142	Looking	Swimming	Juvenile(s)	Unknown	No	No	<Null>
3/20/2023 9:42	Amber Reichert	Rincon	33.745167	-118.188586	P3	CSL	1	444.7	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Diving	Adult(s)	Male(s)	No	No	This CSL frequents the W breakwater to forage.
3/20/2023 10:15	Derek Lerma	Rincon	33.75115	-118.188297	P1	CSL	1	268.0	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Male(s)	No	No	<Null>
3/20/2023 10:33	Amber Reichert	Rincon	33.745167	-118.188586	P3	CSL	1	568.5	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Diving	Adult(s)	Male(s)	Yes	No	Swimming along W break water from N to S.
3/20/2023 11:18	Lewis Koplin	Miller Marine	33.725303	-118.138824	P6	PHS	1	5342.7	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
3/20/2023 12:50	Amber Reichert	Rincon	33.745193	-118.188582	P3	CSL	1	544.8	Pre Construction	Center Catwalk	33.750849	-118.187142	Foraging	Diving	Adult(s)	Male(s)	No	No	Foraging, slapping food on surface. Dove non-directionally.
3/20/2023 13:44	Lewis Koplin	Miller Marine	33.72545	-118.14032	P6	CSL	2	5181.2	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Adult(s)	Unknown	No	No	<Null>
3/20/2023 14:29	Carter Warwick	ECorp	33.738293	-118.1237	P7	CSL	1	6038.7	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
3/20/2023 15:58	Amber Reichert	Rincon	33.745172	-118.188592	P3	CSL	1	605.6	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Milling	Adult(s)	Male(s)	No	No	<Null>
3/20/2023 16:15	Amber Reichert	Rincon	33.745172	-118.188592	P3	CSL	1	488.9	Standby	Center Catwalk	33.750849	-118.187142	Diving	<Null>	Adult(s)	Male(s)	Yes	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
3/20/2023 16:18	Amber Reichert	Rincon	33.745181	-118.188592	P3	CSL	2	822.2	Standby	Center Catwalk	33.750849	-118.187142	Diving	Swimming	Adult(s)	<Null>	Yes	No	<Null>
3/28/2023 16:19	Luis Manzo	GHD	33.757566	-118.184611	P2	CSL	1	68.8	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Milling	Adult(s)	Unknown	No	No	<Null>
3/28/2023 16:19	Gayle McDermott	Rincon	33.751135	-118.187076	P1	PHS	1	748.1	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Swimming	Haul Out	Unknown	Unknown	No	Yes	<Null>
3/28/2023 16:26	Gayle McDermott	Rincon	33.751229	-118.187238	P1	CSL	1	50.5	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Adult(s)	Unknown	No	No	<Null>
3/28/2023 16:28	Gayle McDermott	Rincon	33.751187	-118.187143	P1	CSL	1	112.7	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
3/28/2023 16:38	Ben Chubak	Rincon	33.746239	-118.188934	P3	CSL	1	547.1	Post Construction	Center Catwalk	33.750849	-118.187142	Looking	Milling	Adult(s)	Male(s)	No	No	Watching a group of fishers on Pier J.
3/28/2023 16:52	Gayle McDermott	Rincon	33.751351	-118.187114	P1	CSL	2	60.7	Pre Construction	Center Catwalk	33.750849	-118.187142	Looking	Swimming	Juvenile(s)	Unknown	No	No	<Null>
3/28/2023 16:58	Ben Chubak	Rincon	33.746239	-118.188934	P3	CSL	1	525.9	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Adult(s)	Male(s)	Yes	No	Swimming along the break wall.
3/28/2023 17:15	Carter Warwick	ECorp	33.738252	-118.123978	P7	CBD	8	6070.8	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Mixed	Unknown	No	No	<Null>
3/28/2023 17:28	Carter Warwick	ECorp	33.73823	-118.123971	P7	CSL	1	6070.1	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Milling	Adult(s)	Female(s)	No	No	<Null>
3/28/2023 18:22	Erik Mahan	MTS	33.751837	-118.181743	P4	CSL	1	529.7	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Looking	<Null>	Unknown	Unknown	No	Yes	Peeked head out of water, looked toward driving, and went back under
3/29/2023 9:00	Derek Lerma	Rincon	33.751177	-118.188237	P1	PHS	1	106.9	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Unknown	Unknown	No	No	<Null>
3/29/2023 9:12	Amber Reichert	Rincon	33.745325	-118.188801	P3	PHS	1	432.0	Pre Construction	Center Catwalk	33.750849	-118.187142	Diving	Swimming	Unknown	Unknown	Yes	No	<Null>
3/29/2023 9:25	Olivia Ramirez	GHD	33.757564	-118.184441	P2	CSL	1	666.0	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Unknown	No	No	Heading west towards LA river channel.
3/29/2023 9:37	Amber Reichert	Rincon	33.745315	-118.188794	P3	CSL	1	630.5	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Diving	Adult(s)	Female(s)	No	No	<Null>
3/29/2023 10:00	Richard Cravey	ECorp	33.738526	-118.124317	P7	CBD	4	5999.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Mixed	Unknown	No	No	Feeding
3/29/2023 10:28	Bryce Dewees	Six Scientific	33.723701	-118.175905	P5	CBD	4	3187.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Milling	Mixed	Unknown	No	No	<Null>
3/29/2023 12:42	Amber Reichert	Rincon	33.745345	-118.188658	P3	CBD	1	640.1	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
3/29/2023 12:50	Olivia Ramirez	GHD	33.757549	-118.184485	P2	CSL	1	762.9	Standby	Center Catwalk	33.750849	-118.187142	Milling	Swimming	Adult(s)	Unknown	No	No	<Null>
3/29/2023 12:54	Olivia Ramirez	GHD	33.757549	-118.184485	P2	CSL	1	761.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Unknown	Yes	No	<Null>
3/29/2023 13:05	Lewis Koplin	Miller Marine	33.725465	-118.140325	P6	CSL	2	5187.2	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
3/29/2023 13:58	Olivia Ramirez	GHD	33.757506	-118.18456	P2	CSL	1	652.3	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Unknown	<Null>	No	No	Heading towards the LA River channel.
3/29/2023 14:14	Bryce Dewees	Six Scientific	33.723546	-118.176422	P5	CSL	1	3174.2	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
3/29/2023 14:47	Olivia Ramirez	GHD	33.757554	-118.184505	P2	CSL	1	752.7	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Unknown	No	No	Body broke water twice heading towards LA River channel.
3/29/2023 15:20	Lewis Koplin	Miller Marine	33.725533	-118.140325	P6	CSL	1	5160.6	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
3/29/2023 15:40	Olivia Ramirez	GHD	33.75752	-118.18447	P2	CSL	1	758.8	Standby	Center Catwalk	33.750849	-118.187142	Porpoising	<Null>	Adult(s)	<Null>	No	No	Spotted close to the rocks on shoreline.
3/29/2023 16:16	Olivia Ramirez	GHD	33.757544	-118.184462	P2	GW	1	191.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Juvenile(s)	Unknown	No	No	Spotted large water spout.

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
3/29/2023 16:40	Derek Lerma	Rincon	33.751135	-118.187047	P1	GW	1	289.2	Standby	Center Catwalk	33.750849	-118.187142	Breaching	Swimming	Juvenile(s)	Unknown	Yes	No	<Null>
3/29/2023 16:42	Olivia Ramirez	GHD	33.757544	-118.184462	P2	GW	1	404.5	Standby	Center Catwalk	33.750849	-118.187142	Breaching	<Null>	Juvenile(s)	Unknown	No	No	<Null>
3/29/2023 16:42	Erik Mahan	MTS	33.751442	-118.180025	P4	GW	1	1213.4	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Juvenile(s)	Unknown	Yes	No	<Null>
3/29/2023 16:44	Amber Reichert	Rincon	33.745315	-118.188661	P3	CSL	1	628.0	Standby	Center Catwalk	33.750849	-118.187142	Diving	Swimming	Adult(s)	Male(s)	No	No	Swimming back-and-forth along W breakwater.
3/29/2023 16:56	Amber Reichert	Rincon	33.745313	-118.188654	P3	GW	1	476.5	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Breaching	Juvenile(s)	Unknown	Yes	No	<Null>
3/29/2023 16:56	Derek Lerma	Rincon	33.751135	-118.187047	P1	GW	1	590.9	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Juvenile(s)	Unknown	Yes	No	<Null>
3/30/2023 6:44	Amber Reichert	Rincon	33.745173	-118.188615	P3	PHS	1	515.3	Standby	Center Catwalk	33.750849	-118.187142	Diving	Swimming	Adult(s)	Unknown	Yes	No	<Null>
3/30/2023 7:35	Gayle McDermott	Rincon	33.751113	-118.18721	P1	PHS	1	48.9	Standby	Center Catwalk	33.750849	-118.187142	Looking	Swimming	Adult(s)	Unknown	No	No	<Null>
3/30/2023 7:54	Amber Reichert	Rincon	33.745218	-118.18864	P3	CSL	1	568.9	Standby	Center Catwalk	33.750849	-118.187142	Diving	Swimming	Adult(s)	Male(s)	No	No	<Null>
3/30/2023 8:06	Richard Cravey	ECorp	33.738447	-118.125447	P7	CBD	6	5957.2	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Milling	Adult(s)	Unknown	No	No	Possibly feeding
3/30/2023 8:22	Richard Cravey	ECorp	33.738877	-118.123941	P7	CSL	1	6037.0	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Juvenile(s)	Unknown	No	No	Traveling Swimming
3/30/2023 8:28	Richard Cravey	ECorp	33.738448	-118.125502	P7	CSL	1	5911.1	Pre Construction	Center Catwalk	33.750849	-118.187142	Milling	Swimming	Juvenile(s)	Unknown	No	No	<Null>
3/30/2023 8:31	Richard Cravey	ECorp	33.738451	-118.125528	P7	CBD	15	6229.3	Pre Construction	Center Catwalk	33.750849	-118.187142	Porposing	Swimming	Unknown	Unknown	No	No	Appear to be feeding
3/30/2023 8:55	Bryce Dewees	Six Scientific	33.723512	-118.178592	P5	CSL	1	3143.0	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Male(s)	No	No	<Null>
3/30/2023 9:08	Richard Cravey	ECorp	33.738877	-118.123941	P7	CSL	1	6020.2	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Juvenile(s)	Unknown	Yes	No	<Null>
3/30/2023 13:36	Richard Cravey	ECorp	33.738877	-118.123941	P7	CSL	1	6057.8	Standby	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Juvenile(s)	Unknown	Yes	No	<Null>
3/30/2023 14:00	Braden Froble	GHD	33.757465	-118.184653	P2	CSL	1	757.3	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
3/30/2023 14:29	Richard Cravey	ECorp	33.738448	-118.125502	P7	CSL	1	5888.5	Standby	Center Catwalk	33.750849	-118.187142	Milling	Swimming	Juvenile(s)	Unknown	Yes	No	<Null>
3/30/2023 16:01	Braden Froble	GHD	33.757492	-118.18463	P2	CSL	1	744.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
3/30/2023 16:45	Braden Froble	GHD	33.757492	-118.18463	P2	CSL	1	562.5	Post Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	Yes	No	<Null>
3/30/2023 16:46	Braden Froble	GHD	33.757464	-118.184619	P2	CSL	1	756.9	Post Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
3/30/2023 16:50	Braden Froble	GHD	33.757469	-118.184609	P2	CSL	1	686.0	Post Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/3/2023 12:47	Lewis Koplin	Miller Marine	33.725512	-118.140352	P6	CSL	6	5177.0	Pre Construction	Center Catwalk	33.750849	-118.187142	Milling	Swimming	Mixed	Mixed	No	No	<Null>
4/3/2023 12:55	Braden Froble	GHD	33.757484	-118.184603	P2	CSL	2	175.2	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Unknown	Unknown	Yes	No	<Null>
4/3/2023 12:56	Sawyer Carman	Rincon	33.7485	-118.180723	P4	CSL	1	261.1	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Unknown	Female(s)	No	No	<Null>
4/3/2023 13:30	Braden Froble	GHD	33.757498	-118.184629	P2	CSL	1	107.8	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Unknown	Unknown	No	No	<Null>
4/3/2023 13:34	Sawyer Carman	Rincon	33.74856	-118.180687	P4	CSL	2	632.7	Standby	Center Catwalk	33.750849	-118.187142	Porposing	Milling	Mixed	Female(s)	No	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
4/3/2023 13:36	Braden Froble	GHD	33.75752	-118.184628	P2	CSL	2	309.3	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	Yes	No	<Null>
4/3/2023 13:55	Sawyer Carman	Rincon	33.748546	-118.180699	P4	CSL	1	81.6	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Female(s)	No	Yes	<Null>
4/3/2023 14:31	Sawyer Carman	Rincon	33.748492	-118.180766	P4	CSL	2	623.2	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Porposing	<Null>	Mixed	Female(s)	No	Yes	<Null>
4/3/2023 14:37	Ben Chubak	Rincon	33.746341	-118.189064	P3	CSL	3	175.7	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Unknown	Unknown	Yes	Yes	<Null>
4/3/2023 14:52	Sawyer Carman	Rincon	33.748481	-118.180761	P4	CSL	1	213.8	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Female(s)	No	Yes	<Null>
4/3/2023 14:55	Derek Lerma	Rincon	33.751183	-118.188195	P1	CSL	1	70.2	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Swimming	Breaching	Juvenile(s)	Unknown	Yes	Yes	<Null>
4/3/2023 14:55	Ben Chubak	Rincon	33.746398	-118.189126	P3	CSL	1	182.0	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Looking	Swimming	Unknown	Unknown	Yes	Yes	<Null>
4/3/2023 15:04	Bryce Dewees	Six Scientific	33.734423	-118.18492	P5	CSL	1	1845.0	Pile Driving Vibratory	Center Catwalk	33.750849	-118.187142	Swimming	Milling	Unknown	Unknown	No	Yes	<Null>
4/3/2023 15:32	Carter Warwick	ECorp	33.737799	-118.125141	P7	CSL	1	5933.3	Post Construction	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Juvenile(s)	<Null>	No	No	<Null>
4/3/2023 15:42	Braden Froble	GHD	33.757517	-118.18461	P2	CSL	1	431.6	Post Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	Post construction
4/4/2023 7:56	Braden Froble	GHD	33.75741	-118.184719	P2	CSL	1	406.9	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/4/2023 7:59	Braden Froble	GHD	33.75741	-118.18467	P2	CSL	1	730.7	Pre Construction	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/4/2023 8:23	Braden Froble	GHD	33.757417	-118.184697	P2	CSL	1	142.4	Pile Driving Impact	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Unknown	Unknown	No	Yes	During pile driving
4/4/2023 8:50	Braden Froble	GHD	33.75741	-118.184713	P2	CSL	2	293.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Unknown	Unknown	No	No	Post construction status
4/4/2023 10:25	Ben Chubak	Rincon	33.751124	-118.187037	P1	CSL	1	131.1	Standby	Center Catwalk	33.750849	-118.187142	Looking	Swimming	Adult(s)	Male(s)	No	No	Looking around ~300m ne of piles
4/4/2023 10:38	Braden Froble	GHD	33.757418	-118.184712	P2	CSL	1	612.3	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/4/2023 10:52	Ben Chubak	Rincon	33.751124	-118.187037	P1	CSL	1	186.0	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Adult(s)	Male(s)	Yes	No	Looking around pile area briefly before heading east away from site.
4/4/2023 11:23	Sawyer Carman	Rincon	33.748484	-118.181541	P4	CSL	1	573.5	Pile Driving Impact	Center Catwalk	33.750849	-118.187142	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
4/4/2023 11:30	Braden Froble	GHD	33.757432	-118.184706	P2	CSL	1	38.7	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Swimming	Unknown	Unknown	Yes	No	<Null>
4/4/2023 11:32	Ben Chubak	Rincon	33.751144	-118.187137	P1	CSL	1	214.7	Standby	Center Catwalk	33.750849	-118.187142	Swimming	Looking	Adult(s)	Male(s)	No	No	Looked around for a few seconds then dove and swam away
4/4/2023 14:03	Ben Chubak	Rincon	33.751165	-118.187177	P1	CSL	1	189.3	Standby	South Dolphin	33.749672	-118.18743	Looking	Swimming	Adult(s)	Male(s)	No	No	Checking out the barge as it is relocating
4/4/2023 14:24	Lewis Koplín	Miller Marine	33.725378	-118.140331	P6	CSL	7	5129.0	Standby	South Dolphin	33.749672	-118.18743	Swimming	Milling	Mixed	Mixed	No	No	<Null>
4/4/2023 14:25	Ethan Anderson	Rincon	33.745349	-118.188629	P3	CSL	1	405.6	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/4/2023 14:47	Ben Chubak	Rincon	33.751189	-118.187173	P1	CSL	1	300.4	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Male(s)	Yes	No	Observed looking around ~200 m from gangway, headed SE
4/4/2023 14:53	Carter Warwick	ECorp	33.740798	-118.133052	P7	CSL	1	5182.8	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Juvenile(s)	Unknown	No	No	<Null>
4/4/2023 15:03	Sawyer Carman	Rincon	33.748721	-118.18154	P4	CSL	2	525.7	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
4/4/2023 15:11	Ben Chubak	Rincon	33.751189	-118.187173	P1	CSL	1	269.9	Standby	South Dolphin	33.749672	-118.18743	Looking	<Null>	Adult(s)	Male(s)	Yes	No	<Null>

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4/4/2023 15:19	Ethan Anderson	Rincon	33.745352	-118.18862	P3	CSL	1	488.0	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Female(s)	No	No	<Null>
4/4/2023 15:24	Ethan Anderson	Rincon	33.745334	-118.188623	P3	CSL	1	490.0	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Juvenile(s)	Unknown	No	No	<Null>
4/4/2023 16:42	Carter Warwick	ECorp	33.74074	-118.133034	P7	CBD	3	5236.6	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Mixed	Unknown	No	No	<Null>
4/4/2023 17:14	Bryce Dewees	Six Scientific	33.734243	-118.18489	P5	CSL	1	1784.1	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Unknown	No	Yes	<Null>
4/4/2023 17:27	Ethan Anderson	Rincon	33.745432	-118.188618	P3	CSL	1	474.6	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Unknown	Unknown	No	No	<Null>
4/5/2023 7:10	Braden Froble	GHD	33.757429	-118.184653	P2	CSL	1	363.2	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	Looking	Unknown	Unknown	No	No	<Null>
4/5/2023 7:16	Carter Warwick	ECorp	33.737787	-118.123136	P7	CSL	1	6142.7	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	Milling	Adult(s)	Female(s)	No	No	<Null>
4/5/2023 7:37	Carter Warwick	ECorp	33.737714	-118.123169	P7	CBD	3	6489.7	Standby	North Dolphin	33.752922	-118.18743	Milling	Swimming	Mixed	Unknown	No	No	<Null>
4/5/2023 7:42	Adam Sachs	Rincon	33.751149	-118.187151	P1	CSL	1	366.4	Standby	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/5/2023 8:03	Braden Froble	GHD	33.75746	-118.184655	P2	CSL	1	564.7	Standby	North Dolphin	33.752922	-118.18743	Swimming	Diving	Adult(s)	Unknown	No	No	<Null>
4/5/2023 8:54	Braden Froble	GHD	33.75746	-118.184655	P2	CSL	1	376.4	Standby	North Dolphin	33.752922	-118.18743	Milling	Swimming	Adult(s)	Unknown	Yes	No	<Null>
4/5/2023 8:55	Ben Chubak	Rincon	33.749887	-118.182294	P4	CSL	1	495.1	Soft Start Vibratory	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Unknown	No	No	Popped head out of water and continued swimming toward piles (600m away)
4/5/2023 8:58	Ben Chubak	Rincon	33.749887	-118.182294	P4	CSL	1	450.5	Standby	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Unknown	Yes	No	Popped up again, about 400m from carnival dock
4/5/2023 8:59	Carter Warwick	ECorp	33.737766	-118.123183	P7	CSL	1	6234.9	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Juvenile(s)	Unknown	No	No	<Null>
4/5/2023 9:00	Carter Warwick	ECorp	33.737787	-118.123136	P7	CSL	1	6186.1	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	Yes	Yes	<Null>
4/5/2023 9:02	Bryce Dewees	Six Scientific	33.734258	-118.184964	P5	CSL	1	2144.3	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Swimming	Looking	Juvenile(s)	Unknown	No	Yes	<Null>
4/5/2023 9:18	Lewis Koplín	Miller Marine	33.725383	-118.140903	P6	CSL	7	5277.4	Standby	North Dolphin	33.752922	-118.18743	Milling	Haul Out	Mixed	Mixed	No	No	<Null>
4/5/2023 9:33	Braden Froble	GHD	33.75746	-118.184655	P2	CSL	1	329.6	Standby	North Dolphin	33.752922	-118.18743	Milling	Diving	Adult(s)	Unknown	Yes	No	<Null>
4/5/2023 13:52	Braden Froble	GHD	33.757475	-118.184662	P2	CSL	1	479.7	Standby	North Dolphin	33.752922	-118.18743	Milling	Swimming	Adult(s)	Unknown	No	No	<Null>
4/5/2023 14:04	Braden Froble	GHD	33.757475	-118.184662	P2	CSL	1	69.0	Standby	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Unknown	Yes	No	<Null>
4/5/2023 14:06	Adam Sachs	Rincon	33.751365	-118.187147	P1	CSL	1	234.0	Standby	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Unknown	Yes	No	<Null>
4/5/2023 14:06	Braden Froble	GHD	33.757498	-118.184694	P2	CSL	1	580.0	Standby	North Dolphin	33.752922	-118.18743	Swimming	Milling	Adult(s)	Unknown	No	No	<Null>
4/5/2023 14:21	Adam Sachs	Rincon	33.751365	-118.187147	P1	CSL	1	173.7	Standby	North Dolphin	33.752922	-118.18743	Porpoising	Swimming	Adult(s)	Unknown	Yes	No	Animal surfaced approximately 15 meters away from the falsework pile after the pile was finished being vibed. The crew was alerted but no work stoppage occurred. Sighting occurred at 1410 hours.
4/5/2023 14:49	Braden Froble	GHD	33.75747	-118.184648	P2	CSL	2	407.8	Standby	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Unknown	Unknown	No	No	<Null>
4/5/2023 14:55	Braden Froble	GHD	33.757478	-118.184644	P2	CSL	5	480.8	Standby	North Dolphin	33.752922	-118.18743	Swimming	Milling	Adult(s)	Mixed	No	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
4/5/2023 15:00	Braden Froble	GHD	33.757478	-118.184644	P2	CSL	5	502.0	Standby	North Dolphin	33.752922	-118.18743	Milling	Diving	Adult(s)	Mixed	Yes	No	Appear to be forging but not confirmed. Most Traveled east into marina
4/5/2023 15:26	Braden Froble	GHD	33.757486	-118.184659	P2	CSL	2	243.5	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Swimming	Milling	Unknown	Mixed	No	Yes	<Null>
4/5/2023 16:00	Braden Froble	GHD	33.757494	-118.184624	P2	CSL	2	279.2	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Unknown	Unknown	Yes	Yes	<Null>
4/5/2023 16:09	Adam Sachs	Rincon	33.751238	-118.187403	P1	CSL	2	94.7	Standby	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Male(s)	No	No	<Null>
4/5/2023 16:23	Braden Froble	GHD	33.757486	-118.184619	P2	CSL	1	408.2	Standby	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Male(s)	Yes	No	Saw just before diving, headed SE.
4/5/2023 16:23	Ben Chubak	Rincon	33.753025	-118.182155	P4	CSL	2	455.5	Standby	North Dolphin	33.752922	-118.18743	Swimming	Breaching	Adult(s)	Unknown	Yes	No	<Null>
4/5/2023 16:25	Braden Froble	GHD	33.757457	-118.18463	P2	CSL	1	540.9	Standby	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Male(s)	Yes	No	<Null>
4/5/2023 16:34	Ben Chubak	Rincon	33.753025	-118.182155	P4	CSL	1	473.3	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Male(s)	Yes	No	Popped up to check out rincon whaler, then continued on its way south.
4/5/2023 16:48	Braden Froble	GHD	33.757457	-118.18463	P2	CSL	1	394.9	Standby	North Dolphin	33.752922	-118.18743	Swimming	Diving	Adult(s)	Male(s)	Yes	No	Surfaces briefly then dives for extended period
4/5/2023 16:52	Braden Froble	GHD	33.757455	-118.184664	P2	CSL	3	564.3	Standby	North Dolphin	33.752922	-118.18743	Swimming	Milling	Mixed	Mixed	Yes	No	Swam out of marina and milled near breakwater
4/5/2023 17:24	Braden Froble	GHD	33.757454	-118.184681	P2	CSL	2	529.4	Standby	North Dolphin	33.752922	-118.18743	Swimming	Diving	Adult(s)	Unknown	No	No	<Null>
4/5/2023 17:40	Ethan Anderson	Rincon	33.74541	-118.188667	P3	CSL	1	802.3	Post Construction	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
4/13/2023 7:56	Lewis Koplin	Miller Marine	33.727199	-118.140569	P6	CSL	2	4996.7	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Male(s)	No	No	<Null>
4/13/2023 8:06	Adam Sachs	Rincon	33.751208	-118.187294	P1	CSL	1	109.6	Pre Construction	South Dolphin	33.749672	-118.18743	Swimming	Milling	Adult(s)	Unknown	No	No	<Null>
4/13/2023 8:14	Carter Warwick	ECorp	33.737589	-118.123185	P7	CSL	1	6109.7	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
4/13/2023 8:19	Ethan Anderson	Rincon	33.745342	-118.188649	P3	CSL	1	481.0	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
4/13/2023 8:28	Ethan Anderson	Rincon	33.745339	-118.188665	P3	CSL	1	516.2	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
4/13/2023 9:59	Ben Chubak	Rincon	33.749998	-118.1808	P4	PHS	1	600.6	Standby	South Dolphin	33.749672	-118.18743	Looking	Swimming	Adult(s)	Unknown	No	No	Checked out the whaler for a while and then swam away.
4/13/2023 10:10	Ben Chubak	Rincon	33.749998	-118.1808	P4	PHS	1	635.2	Standby	South Dolphin	33.749672	-118.18743	Foraging	Looking	Adult(s)	Unknown	Yes	No	Head popped out of water, eating fish
4/13/2023 10:20	Ben Chubak	Rincon	33.749998	-118.1808	P4	PHS	1	630.0	Standby	South Dolphin	33.749672	-118.18743	Looking	Swimming	Adult(s)	Unknown	Yes	No	Head popped out of water looking around
4/13/2023 10:38	Ben Chubak	Rincon	33.749998	-118.1808	P4	PHS	1	630.0	Standby	South Dolphin	33.749672	-118.18743	Foraging	Looking	Adult(s)	Unknown	Yes	No	Big fish in mouth! Eating at surface.
4/13/2023 13:36	Chris Clark	Six Scientific	33.724106	-118.178716	P5	PHS	1	2741.9	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Juvenile(s)	Unknown	No	No	<Null>
4/14/2023 7:06	Adam Sachs	Rincon	33.751199	-118.188207	P1	CSL	1	86.5	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/14/2023 7:40	Ethan Anderson	Rincon	33.745419	-118.18866	P3	CSL	1	754.3	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
4/14/2023 8:08	Ben Chubak	Rincon	33.750041	-118.182181	P4	PHS	2	482.0	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Looking	Swimming	Adult(s)	Mixed	No	No	Both playing with each other, swimming SE about 600 m from worksite
4/14/2023 8:30	Adam Sachs	Rincon	33.751246	-118.18832	P1	CSL	1	175.0	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Male(s)	No	Yes	<Null>
4/14/2023 9:04	Ben Chubak	Rincon	33.750079	-118.182204	P4	CSL	1	421.2	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Unknown	No	No	Swimming SE away from worksite (~300m)

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
4/14/2023 10:11	Luis Manzo	GHD	33.757034	-118.185725	P2	PHS	1	577.1	Standby	South Dolphin	33.749672	-118.18743	Porpoising	Swimming	Unknown	Unknown	Yes	No	Was swimming in place for a while.
4/14/2023 11:03	Ben Chubak	Rincon	33.750069	-118.182118	P4	CSL	1	496.7	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Milling	Swimming	Adult(s)	Unknown	No	Yes	Finning at the surface
4/14/2023 13:02	Luis Manzo	GHD	33.757026	-118.185754	P2	PHS	3	720.0	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Swimming	Looking	Unknown	Unknown	No	No	Between break wall and Queen Mary, proceeded to swim around back of carnival cruise ship
4/14/2023 13:03	Carter Warwick	ECorp	33.737784	-118.124189	P7	CSL	1	6010.2	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
4/18/2023 7:37	Sawyer Carman	Rincon	33.749984	-118.181378	P4	CSL	1	464.4	Pre Construction	South Dolphin	33.749672	-118.18743	Milling	Milling	Adult(s)	Female(s)	No	No	<Null>
4/18/2023 7:49	Ed Nieblas	ECorp	33.742128	-118.13235	P7	CSL	1	5361.0	Pre Construction	South Dolphin	33.749672	-118.18743	Milling	Looking	Adult(s)	Female(s)	No	No	<Null>
4/18/2023 8:17	Ethan Anderson	Rincon	33.745402	-118.188659	P3	CSL	1	547.9	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	Yes	<Null>
4/18/2023 8:46	Ed Nieblas	Rincon	33.742122	-118.132304	P7	CBD	4	4783.4	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Mixed	Mixed	No	Yes	Temporarily feeding
4/18/2023 9:03	Bryce Dewees	Six Scientific	33.734503	-118.184839	P5	CSL	1	1740.1	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Male(s)	No	No	<Null>
4/18/2023 9:34	Ed Nieblas	ECorp	33.742122	-118.132304	P7	CBD	4	5110.6	Soft Start Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Porpoising	Mixed	Mixed	Yes	No	<Null>
4/18/2023 10:45	Ed Nieblas	ECorp	33.738641	-118.124871	P7	CSL	1	5970.8	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	<Null>	<Null>	<Null>	No	Yes	<Null>
4/18/2023 10:46	Ed Nieblas	ECorp	33.738641	-118.124871	P7	CSL	1	6021.7	Rincon marked as take, but not take because resighting	South Dolphin	33.749672	-118.18743	Swimming	<Null>	<Null>	<Null>	Yes	No	<Null>
4/18/2023 11:45	Bryce Dewees	Six Scientific	33.734404	-118.184943	P5	CBD	7	1772.9	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Milling	Mixed	Mixed	No	Yes	<Null>
4/18/2023 11:46	Bryce Dewees	Six Scientific	33.734401	-118.184959	P5	CBD	12	1827.4	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Porpoising	Mixed	Mixed	No	Yes	<Null>
4/18/2023 15:11	Luis Manzo	GHD	33.757472	-118.184655	P2	PHS	2	759.8	Standby	South Dolphin	33.749672	-118.18743	Looking	Swimming	Unknown	Unknown	No	No	Started swimming towards the construction site.
4/18/2023 15:15	Ben Chubak	Rincon	33.751163	-118.187046	P1	CSL	1	374.9	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Unknown	No	No	Swimming and looking around, traveling SE, about 400m from SD piles
4/18/2023 15:22	Ethan Anderson	Rincon	33.745438	-118.188659	P3	CSL	1	491.7	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Unknown	Unknown	No	No	<Null>
4/18/2023 15:26	Ed Nieblas	ECorp	33.738641	-118.124871	P7	CSL	1	5916.9	Standby	South Dolphin	33.749672	-118.18743	Swimming	Porpoising	<Null>	<Null>	Yes	No	<Null>
4/18/2023 16:34	Lewis Koplín	Miller Marine	33.725981	-118.136051	P6	CBD	4	5457.4	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Unknown	Yes	No	<Null>
4/19/2023 7:31	Olivia Ramirez	GHD	33.757459	-118.184545	P2	PHS	1	869.2	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	Briefly spotted head out of water traveling east.
4/19/2023 7:33	Bryce Dewees	Six Scientific	33.734196	-118.185052	P5	CSL	1	1850.5	Standby	South Dolphin	33.749672	-118.18743	Swimming	Milling	Adult(s)	Unknown	No	No	<Null>
4/19/2023 7:55	Ben Chubak	Rincon	33.749534	-118.18208	P4	CSL	1	520.3	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Female(s)	No	No	Swimming NE about 700m from piles, looking around
4/19/2023 7:57	Ben Chubak	Rincon	33.749534	-118.18208	P4	CSL	1	541.8	Standby	South Dolphin	33.749672	-118.18743	Milling	Looking	Adult(s)	Female(s)	Yes	No	Looking around, milling around, still headed NE
4/19/2023 8:01	Olivia Ramirez	GHD	33.757475	-118.184557	P2	CSL	1	704.2	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
4/19/2023 8:02	Olivia Ramirez	GHD	33.757475	-118.184557	P2	CSL	1	812.6	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Unknown	Yes	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
4/19/2023 8:05	Olivia Ramirez	GHD	33.757475	-118.184557	P2	CSL	1	689.0	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Unknown	Yes	No	<Null>
4/19/2023 8:22	Ed Nieblas	ECorp	33.740124	-118.127154	P7	CSL	1	5752.2	Standby	South Dolphin	33.749672	-118.18743	Swimming	Milling	Adult(s)	Female(s)	No	No	<Null>
4/19/2023 8:24	Olivia Ramirez	GHD	33.757475	-118.184557	P2	CSL	1	714.9	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Unknown	Yes	No	Traveling into Los Angeles River channel.
4/19/2023 8:35	Bryce Dewees	Six Scientific	33.734256	-118.185041	P5	CBD	12	1922.2	Standby	South Dolphin	33.749672	-118.18743	Milling	Porpoising	Mixed	Mixed	No	No	<Null>
4/19/2023 8:36	Bryce Dewees	Six Scientific	33.734266	-118.18505	P5	CBD	5	1797.9	Standby	South Dolphin	33.749672	-118.18743	Porpoising	Milling	Mixed	Mixed	No	No	<Null>
4/19/2023 8:49	Adam Sachs	Rincon	33.75121	-118.18709	P1	CSL	1	329.9	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/19/2023 8:53	Ben Chubak	Rincon	33.749827	-118.181811	P4	CSL	1	505.4	Soft Start Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Female(s)	No	Yes	Swimming at surface, looking around.
4/19/2023 9:04	Olivia Ramirez	GHD	33.757527	-118.18454	P2	CSL	1	359.8	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
4/19/2023 9:48	Adam Sachs	Rincon	33.75118	-118.187076	P1	CSL	1	287.4	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Male(s)	No	Yes	<Null>
4/19/2023 9:49	Bryce Dewees	Six Scientific	33.734476	-118.184979	P5	CSL	1	1717.9	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Milling	Juvenile(s)	Unknown	No	Yes	<Null>
4/19/2023 10:34	Ed Nieblas	ECorp	33.740124	-118.127154	P7	CSL	1	5690.1	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Female(s)	Yes	Yes	<Null>
4/19/2023 10:55	Ethan Anderson	Rincon	33.745411	-118.188681	P3	CSL	1	484.7	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	No	Yes	<Null>
4/19/2023 11:25	Bryce Dewees	Six Scientific	33.734549	-118.184766	P5	CBD	4	1774.7	Rincon marked not take, but IS take because first time this group was taken	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Mixed	Mixed	Yes	No	<Null>
4/19/2023 13:13	Adam Sachs	Rincon	33.751239	-118.187223	P1	GW	1	191.0	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Juvenile(s)	Unknown	No	No	Animal sighted swimming approximately 150 yards from the south dolphin. Monitors observed the individual for approximately 30 minutes as it swam towards the south harbor entrance. PSO 5 observed the animal exit the harbor. No work during sighting.
4/19/2023 13:26	Ed Nieblas	ECorp	33.740124	-118.127154	P7	CSL	1	5667.6	Standby	South Dolphin	33.749672	-118.18743	Swimming	Milling	Adult(s)	Female(s)	Yes	No	<Null>
4/19/2023 13:29	Bryce Dewees	Six Scientific	33.734372	-118.185164	P5	GW	1	1626.3	Stand By	South Dolphin			Swimming	<Null>	Juvenile(s)	Unknown	Yes	No	<Null>
4/19/2023 13:37	Bryce Dewees	Six Scientific	33.734372	-118.185164	P5	GW	1	1860.7	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Juvenile(s)	Unknown	Yes	No	<Null>
4/19/2023 13:41	Bryce Dewees	Six Scientific	33.734361	-118.18514	P5	GW	1	2203.6	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Juvenile(s)	Unknown	Yes	No	<Null>
4/19/2023 16:02	Olivia Ramirez	GHD	33.757523	-118.184551	P2	CSL	1	627.1	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
4/19/2023 16:09	Adam Sachs	Rincon	33.751156	-118.187076	P1	CSL	1	166.0	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	Yes	No	<Null>
4/20/2023 7:53	Braden Froble	GHD	33.757452	-118.184624	P2	CBD	3	526.1	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	Traveled SE out of harbor
4/20/2023 8:00	Braden Froble	GHD	33.75745	-118.184613	P2	CSL	1	810.5	Standby	South Dolphin	33.749672	-118.18743	Swimming	Diving	Adult(s)	Unknown	No	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
4/20/2023 9:12	Ethan Anderson	Rincon	33.745427	-118.188672	P3	CSL	1	481.7	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Juvenile(s)	Unknown	No	No	<Null>
4/20/2023 9:14	Braden Froble	GHD	33.757458	-118.184608	P2	CSL	1	897.8	Standby	South Dolphin	33.749672	-118.18743	Swimming	Foraging	Adult(s)	Male(s)	No	No	Fast swimming into harbor to the east eating fish
4/20/2023 9:52	Adam Sachs	Rincon	33.75117	-118.188136	P1	CSL	2	163.3	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/20/2023 9:54	Adam Sachs	Rincon	33.751182	-118.18803	P1	PHS	1	150.0	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/20/2023 10:29	Lewis Koplin	Miller Marine	33.726347	-118.138877	P6	CBD	2	5187.5	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/20/2023 10:31	Jason Carroll	MTS	33.728889	-118.116753	P7	CSL	1	6952.8	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Female(s)	No	No	<Null>
4/20/2023 10:34	Jason Carroll	MTS	33.728889	-118.116753	P7	CSL	1	6952.8	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Female(s)	Yes	No	<Null>
4/20/2023 10:54	Bryce Dewees	Six Scientific	33.734301	-118.184648	P5	CSL	1	1778.8	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Female(s)	No	Yes	<Null>
4/20/2023 11:17	Braden Froble	GHD	33.757488	-118.184606	P2	CSL	2	606.0	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Mixed	Unknown	No	Yes	Swimming towards Stern of ship
4/20/2023 11:22	Bryce Dewees	Six Scientific	33.734305	-118.184637	P5	CSL	1	1709.3	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Male(s)	No	Yes	<Null>
4/20/2023 11:27	Braden Froble	GHD	33.757487	-118.1846	P2	CSL	1	897.8	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Swimming	<Null>	Unknown	No	Yes	Casually swimming
4/20/2023 11:34	Jason Carroll	MTS	33.734865	-118.113889	P7	CSL	1	7010.4	Standby	South Dolphin	33.749672	-118.18743	Looking	Swimming	Juvenile(s)	Male(s)	No	No	<Null>
4/20/2023 11:54	Bryce Dewees	Six Scientific	33.734312	-118.184648	P5	CSL	1	1727.1	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Unknown	No	No	<Null>
4/20/2023 13:03	Ben Chubak	Rincon	33.749052	-118.181866	P4	CSL	1	519.1	Standby	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Female(s)	Yes	No	Popped up near pso 4 vessel, looked around and headed north. Did not seem interested in milling around.
4/20/2023 13:47	Ben Chubak	Rincon	33.7491	-118.181914	P4	CSL	1	491.8	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Female(s)	No	Yes	Swimming ~600 m from piles looking around, swimming north
4/20/2023 14:11	Adam Sachs	Rincon	33.751235	-118.187965	P1	CSL	1	101.9	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Female(s)	No	Yes	<Null>
4/20/2023 14:27	Ben Chubak	Rincon	33.748998	-118.181867	P4	CSL	1	499.3	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Unknown	Yes	No	Swimming north, parallel to cruiser ship about 600m away.
4/20/2023 14:37	Ethan Anderson	Rincon	33.745371	-118.188764	P3	CSL	1	352.5	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	Yes	No	<Null>
4/20/2023 14:45	Ben Chubak	Rincon	33.749078	-118.181841	P4	CSL	1	499.0	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Male(s)	Yes	No	Sea lion spotted by pso 3, swam east towards my location, then headed north about 600m from cruise ship.
4/20/2023 14:49	Braden Froble	GHD	33.757485	-118.18459	P2	CSL	1	884.9	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/20/2023 15:06	Ethan Anderson	Rincon	33.745406	-118.188664	P3	CSL	1	478.0	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
4/20/2023 15:30	Ben Chubak	Rincon	33.749053	-118.181848	P4	CSL	1	114.6	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Porpoising	Adult(s)	Unknown	No	Yes	Swimming north on port side bow of cruise ship, jumping a bit
4/20/2023 15:35	Bryce Dewees	Six Scientific	33.734335	-118.184581	P5	OTHR	1	1682.8	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	Yes	<Null>
4/20/2023 15:43	Bryce Dewees	Six Scientific	33.734255	-118.184555	P5	CSL	2	1688.0	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Mixed	No	No	<Null>
4/20/2023 16:06	Jason Carroll	MTS	33.73352	-118.112223	P7	CSL	1	7200.1	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Female(s)	No	No	<Null>
4/21/2023 7:42	Ethan Anderson	Rincon	33.745225	-118.188855	P3	CSL	1	514.6	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
4/21/2023 8:07	Ethan Anderson	Rincon	33.745205	-118.188633	P3	CSL	1	504.1	Standby	South Dolphin	33.749672	-118.18743	Swimming	Milling	Adult(s)	Unknown	No	No	<Null>
4/21/2023 8:29	Ethan Anderson	Rincon	33.745269	-118.188581	P3	CSL	1	499.2	Pre Construction	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Male(s)	No	No	<Null>
4/21/2023 8:36	Jason Carroll	MTS	33.729201	-118.118886	P7	CSL	1	6744.6	Pre Construction	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Female(s)	No	No	<Null>
4/21/2023 8:37	Ben Chubak	Rincon	33.748858	-118.182511	P4	CSL	1	416.0	Pre Construction	South Dolphin	33.749672	-118.18743	Looking	Swimming	Adult(s)	Male(s)	No	No	At surface looking around barking heading south away from cruise ship
4/21/2023 8:45	Ryder Burliss	GHD	33.757452	-118.184636	P2	CSL	1	106.6	Soft Start Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Diving	Adult(s)	Male(s)	Yes	No	Sighted just before vibratory pile driving started then dove down
4/21/2023 8:55	Ethan Anderson	Rincon	33.745245	-118.188647	P3	CSL	1	270.1	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	Yes	<Null>
4/21/2023 8:59	Lewis Koplin	Miller Marine	33.727747	-118.142877	P6	CBD	12	4814.8	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Mixed	Mixed	No	No	<Null>
4/25/2023 7:23	Derek Lerma	Rincon	33.751106	-118.187063	P1	CSL	1	553.7	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
4/25/2023 7:41	Carter Warwick	ECorp	33.738479	-118.124241	P7	CSL	1	5967.6	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Juvenile(s)	Unknown	No	No	<Null>
4/25/2023 10:12	Ryder Burliss	GHD	33.757463	-118.184584	P2	CSL	1	917.7	Pile Driving Vibratory	South Dolphin	33.749672	-118.18743	Swimming	Diving	Adult(s)	Unknown	No	Yes	Heading into harbor during pile driving
4/25/2023 14:58	Ryder Burliss	GHD	33.757499	-118.184601	P2	CSL	1	824.7	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Swimming	Diving	Adult(s)	Unknown	No	No	During pile driving. Swimming along rocks towards LA river
4/25/2023 15:10	Ryder Burliss	GHD	33.757457	-118.184588	P2	CSL	1	894.5	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Swimming	Diving	Adult(s)	Male(s)	No	No	Following the rocks west towards LA river very close to shore. During pile driving.
4/25/2023 15:38	Ryder Burliss	GHD	33.757458	-118.184639	P2	CSL	1	906.9	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Male(s)	No	No	Swimming into harbor along rocks just before pile driving took up again
4/27/2023 7:12	Ed Nieblas	ECorp	33.739028	-118.124738	P7	CSL	1	5831.6	Standby	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/27/2023 7:52	Luis Manzo	GHD	33.757474	-118.184633	P2	PHS	1	621.9	Standby	South Dolphin	33.749672	-118.18743	Swimming	Haul Out	Unknown	Unknown	No	No	<Null>
4/27/2023 8:21	Ed Nieblas	ECorp	33.739028	-118.124738	P7	CSL	1	5933.6	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Adult(s)	Unknown	Yes	No	<Null>
4/27/2023 8:39	Ethan Anderson	Rincon	33.745946	-118.188839	P3	CSL	1	646.9	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
4/27/2023 8:41	Ethan Anderson	Rincon	33.750411	-118.180477	P4	CSL	1	600.6	Pile Driving Impact	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
4/27/2023 9:03	Ethan Anderson	Rincon	33.745916	-118.188958	P3	CSL	1	446.7	Standby	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
4/27/2023 9:10	Ben Chubak	Rincon	33.751285	-118.188081	P1	CSL	1	131.5	Post Construction	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Unknown	No	No	Swimming north towards direction of pso4 away from south dolphin piles.
4/27/2023 9:13	Lewis Koplin	Miller Marine	33.726772	-118.143341	P6	CSL	2	4799.7	Post Construction	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Male(s)	No	No	<Null>
4/27/2023 16:31	Bryce Dewees	Six Scientific	33.734181	-118.184922	P5	PHS	1	2122.4	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Looking	Swimming	Adult(s)	Unknown	No	Yes	<Null>
4/27/2023 16:43	Ethan Anderson	Rincon	33.745484	-118.188876	P3	CSL	2	826.3	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
4/28/2023 8:19	Ethan Anderson	Rincon	33.745328	-118.188631	P3	CSL	1	745.7	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
4/28/2023 8:34	Ed Nieblas	ECorp	33.740082	-118.126974	P7	CSL	1	5844.9	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
4/28/2023 9:29	Ethan Anderson	Rincon	33.745442	-118.188648	P3	CSL	1	835.9	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Juvenile(s)	Female(s)	No	No	<Null>
5/3/2023 12:51	Ryder Burliss	GHD	33.757436	-118.184663	P2	CSL	2	587.9	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	Diving	<Null>	<Null>	No	No	Spotted during pre-construction coming out of the marina

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
5/3/2023 13:26	Erik Mahan	MTS	33.751711	-118.182952	P4	CSL	1	886.7	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
5/3/2023 13:31	Ethan Anderson	Rincon	33.745419	-118.188718	P3	CSL	1	836.9	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
5/3/2023 14:21	Ethan Anderson	Rincon	33.745464	-118.188623	P3	CSL	1	915.4	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
5/3/2023 15:28	Luis Manzo	GHD	33.757464	-118.184697	P2	PHS	1	553.2	Soft Start Impact?	North Dolphin	33.752922	-118.18743	Swimming	Haul Out	Unknown	Unknown	No	No	<Null>
5/3/2023 16:27	Ethan Anderson	Rincon	33.745454	-118.188655	P3	CSL	2	829.1	Post Construction	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Mixed	No	No	<Null>
5/4/2023 7:40	Carter Warwick	ECorp	33.738061	-118.122967	P7	CSL	1	6191.9	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
5/4/2023 7:44	Bryce Dewees	Six Scientific	33.734247	-118.184732	P5	CSL	1	2148.9	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Unknown	No	No	<Null>
5/4/2023 8:13	Carter Warwick	ECorp	33.73801	-118.122873	P7	CBD	5	6221.5	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Mixed	<Null>	No	No	<Null>
5/4/2023 9:36	Bryce Dewees	Six Scientific	33.734352	-118.18479	P5	CSL	1	2112.3	Standby	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
5/4/2023 9:48	Bryce Dewees	Six Scientific	33.734322	-118.18481	P5	CSL	1	2114.9	Standby	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Juvenile(s)	Unknown	No	No	<Null>
5/4/2023 9:53	Bryce Dewees	Six Scientific	33.734311	-118.184774	P5	CSL	1	2094.4	Standby	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
5/4/2023 10:32	Bryce Dewees	Six Scientific	33.734326	-118.184816	P5	CSL	1	2102.2	Soft Start Vibratory	North Dolphin	33.752922	-118.18743	Milling	Looking	Adult(s)	Unknown	No	No	<Null>
5/4/2023 15:30	Nicholas Fager	Rincon	33.744244	-118.188017	P3	CSL	1	826.5	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
5/4/2023 15:43	Ben Chubak	Rincon	33.751978	-118.181243	P4	CSL	1	582.1	Pile Driving Impact	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Female(s)	No	No	Looked around then headed south
5/4/2023 18:13	Nicholas Fager	Rincon	33.746669	-118.188963	P3	CSL	1	552.8	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
5/5/2023 13:55	Olivia Ramirez	GHD	33.757559	-118.184506	P2	PHS	1	491.5	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	<Null>	<Null>	<Null>	No	No	<Null>
5/8/2023 8:20	Carter Warwick	ECorp	33.726659	-118.140011	P6	CSL	1	5336.3	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
5/8/2023 8:38	Ed Nieblas	ECorp	33.740657	-118.12834	P7	CBD	7	5647.2	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Unknown	No	No	Nothing unusual with behavior
5/8/2023 8:38	Ed Nieblas	ECorp	33.740657	-118.12834	P7	CBD	7	5647.2	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Unknown	No	No	Nothing unusual with behavior
5/8/2023 8:40	Braden Froble	GHD	33.757429	-118.184728	P2	CSL	1	223.9	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Unknown	Unknown	No	No	<Null>
5/8/2023 8:50	Braden Froble	GHD	33.757429	-118.184728	P2	CSL	1	411.3	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	Milling	Unknown	Unknown	Yes	No	<Null>
5/8/2023 9:18	Carter Warwick	ECorp	33.725061	-118.142179	P6	CBD	5	5205.3	Standby	North Dolphin	33.752922	-118.18743	Swimming	Milling	Mixed	Unknown	Yes	No	<Null>
5/8/2023 9:20	Braden Froble	GHD	33.757429	-118.184728	P2	CSL	1	500.6	Standby	North Dolphin	33.752922	-118.18743	Swimming	Milling	Unknown	Unknown	Yes	No	<Null>
5/8/2023 9:46	Sawyer Carman	Rincon	33.752497	-118.181956	P4	CSL	1	504.3	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	Yes	Yes	<Null>
5/8/2023 9:55	Braden Froble	GHD	33.757449	-118.184699	P2	CSL	1	433.8	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Milling	Milling	Unknown	Unknown	No	No	<Null>
5/8/2023 10:03	Braden Froble	GHD	33.757449	-118.184699	P2	CSL	1	347.8	Standby	North Dolphin	33.752922	-118.18743	Milling	<Null>	Unknown	Unknown	Yes	No	<Null>
5/8/2023 10:11	Braden Froble	GHD	33.757449	-118.184699	P2	CSL	1	162.9	Standby	North Dolphin	33.752922	-118.18743	Milling	Milling	Unknown	Unknown	Yes	No	No clear direction of travel. In post construction

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
5/8/2023 10:15	Gayle McDermott	Rincon	33.751295	-118.186838	P1	CSL	1	95.4	Standby	North Dolphin	33.752922	-118.18743	Porposing	Swimming	Unknown	Unknown	Yes	No	<Null>
5/8/2023 10:39	Ed Nieblas	ECorp	33.740657	-118.12834	P7	CBD	7	5648.2	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Swimming	Milling	Adult(s)	Unknown	Yes	No	<Null>
5/8/2023 10:39	Ed Nieblas	ECorp	33.740657	-118.12834	P7	CBD	7	5648.2	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Swimming	Milling	Adult(s)	Unknown	Yes	No	<Null>
5/8/2023 10:42	Ed Nieblas	ECorp	33.740657	-118.12834	P7	CBD	7	5733.4	Standby	North Dolphin	33.752922	-118.18743	Swimming	Milling	Adult(s)	Unknown	Yes	No	<Null>
5/8/2023 10:42	Ed Nieblas	ECorp	33.740657	-118.12834	P7	CBD	7	5733.4	Standby	North Dolphin	33.752922	-118.18743	Swimming	Milling	Adult(s)	Unknown	Yes	No	<Null>
5/8/2023 10:48	Sawyer Carman	Rincon	33.752521	-118.181873	P4	CSL	1	646.6	Pile Driving Impact	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Juvenile(s)	Female(s)	No	No	<Null>
5/8/2023 11:16	Braden Froble	GHD	33.757443	-118.184752	P2	CSL	1	466.5	Standby	North Dolphin	33.752922	-118.18743	Milling	<Null>	Unknown	Unknown	No	No	<Null>
5/8/2023 11:23	Braden Froble	GHD	33.757443	-118.184752	P2	CSL	1	84.2	Standby	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Unknown	Unknown	Yes	No	<Null>
5/8/2023 14:50	Braden Froble	GHD	33.75744	-118.184735	P2	CSL	1	358.1	Pile Driving Impact	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Unknown	Unknown	No	No	<Null>
5/9/2023 7:04	Ethan Anderson	Rincon	33.745385	-118.18864	P3	CSL	1	885.1	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
5/9/2023 7:13	Ethan Anderson	Rincon	33.745428	-118.188653	P3	CSL	1	903.5	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	Milling	Unknown	Unknown	No	No	<Null>
5/9/2023 9:10	Sawyer Carman	Rincon	33.753155	-118.182508	P4	CSL	1	462.9	Pile Driving Impact	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Female(s)	No	No	<Null>
5/9/2023 9:13	Sawyer Carman	Rincon	33.753139	-118.182497	P4	CSL	1	146.7	Pile Driving Impact	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	Yes	<Null>
5/9/2023 9:13	Adam Sachs	Rincon	33.751218	-118.187432	P1	CSL	1	683.0	Pile Driving Impact	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Male(s)	No	No	<Null>
5/9/2023 9:18	Ethan Anderson	Rincon	33.745426	-118.188606	P3	CSL	1	834.8	Standby	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
5/9/2023 9:35	Ethan Anderson	Rincon	33.745765	-118.188879	P3	CSL	1	745.9	Pile Driving Impact	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
5/9/2023 11:18	Sawyer Carman	Rincon	33.753193	-118.182641	P4	CSL	1	544.3	Pile Driving Impact	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Female(s)	No	No	<Null>
7/11/23 10:53	Lewis Koplín	Six Scientific	33.751295	-118.186838	P1	CBD	1	415.2	Dredging	Center Catwalk	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
7/12/23 8:42	Ben Chubak	Rincon	33.751295	-118.186838	P1	CSL	1	162.0	Dredging	Center Catwalk	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
7/12/23 10:28	Ben Chubak	Rincon	33.751295	-118.186838	P1	CSL	1	157.3	Dredging	Center Catwalk	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Unknown	No	No	<Null>
9/25/2023 9:30	Ryder Burliss	GHD	33.757535	-118.184741	P2	CSL	1	516.2	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	Milling	Adult(s)	Unknown	No	No	Sighted during pre-con headed towards construction area and stern of crew ship, then turned around heading back into harbor 5 mins sighting
9/25/2023 9:52	Alex Shepherd	Rincon	33.751182	-118.188671	P1	CSL	1	96.6	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Unknown	No	No	<Null>
9/25/2023 9:55	Alex Shepherd	Rincon	33.751182	-118.188671	P1	CSL	1	329.7	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	Milling	Adult(s)	Unknown	Yes	No	Reminding at bow of cruise ship
9/25/2023 9:56	Nathalie Treminio	Rincon	33.746075	-118.188921	P3	CSL	1	503.0	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
9/25/2023 10:13	Ed Nieblas	ECorp	33.739323	-118.124609	P7	CSL	1	6009.9	Stand By	North Dolphin	33.752922	-118.18743	Swimming	Porposing	Adult(s)	Female(s)	No	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
9/25/2023 10:19	Ryder Burliss	GHD	33.757424	-118.184711	P2	CBD	1	762.6	Stand By	North Dolphin	33.752922	-118.18743	Milling	Swimming	Unknown	Unknown	No	No	Appeared in one spot circling around for 5 mins then dove down. Resurfaced swimming west
9/25/2023 10:29	Ryder Burliss	GHD	33.757457	-118.184731	P2	CSL	1	538.9	Stand By	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	Swimming away from construction
9/25/2023 11:10	Ryder Burliss	GHD	33.757435	-118.184729	P2	CSL	1	593.4	Stand By	North Dolphin	33.752922	-118.18743	Swimming	Diving	Unknown	Unknown	No	No	Coming out of the harbor circling between breakwater and shore May be feeding
9/25/2023 11:28	Ryder Burliss	GHD	33.757419	-118.184719	P2	CSL	1	86.1	Stand By	North Dolphin	33.752922	-118.18743	Swimming	Diving	Unknown	Unknown	No	No	Swimming port side of crew ship appears to be swimming in direction of LA river as crew stops construction
9/26/2023 7:16	Derek Lerma	Rincon	34.209376	-118.882016	P1	CSL	1	81722.3	Pre Construction	North Dolphin	33.752922	-118.18743	Swimming	<Null>	Adult(s)	Male(s)	No	No	<Null>
9/26/2023 7:34	Ryder Burliss	GHD	33.757427	-118.184638	P2	CSL	1	71.0	Stand By	North Dolphin	33.752922	-118.18743	Swimming	Milling	Juvenile(s)	Unknown	No	No	Very close to pile driving not during vibe. Spotted underneath gangway
9/26/2023 7:37	Ben Chubak	Rincon	33.751751	-118.184839	P4	CBD	1	278.7	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Unknown	Yes	Yes	<Null>
9/26/2023 7:47	Ryder Burliss	GHD	33.757436	-118.184655	P2	CSL	1	291.6	Pile Driving Vibratory	North Dolphin	33.752922	-118.18743	Swimming	Diving	Unknown	Unknown	No	Yes	Swimming out of LA river towards the Crain during vibratory pile driving then dove under. Pile driving stopped CSL heading away to the east during post construction
9/26/2023 7:59	Ben Chubak	Rincon	33.751751	-118.184839	P4	CBD	1	272.9	Post Construction	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Unknown	Yes	No	Checked out monitoring vessel then headed away from work area.
9/26/2023 8:13	Nicholas Fager	Rincon	33.745332	-118.188668	P3	CSL	1	701.6	Post Construction	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Male(s)	No	No	<Null>
9/26/2023 8:17	Ryder Burliss	GHD	33.757467	-118.184643	P2	CBD	1	388.8	Post Construction	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	Sighted 8:17am Swimming towards platform lost visibility. Post construction. Regained visibility 8:25 still swimming around by platform. Post construction
9/26/2023 8:35	Ryder Burliss	GHD	33.757458	-118.184647	P2	CSL	1	526.5	Post Construction	North Dolphin	33.752922	-118.18743	Milling	Swimming	Adult(s)	Male(s)	No	No	Heading into marina from around platform. Possibly the same csl
9/26/2023 8:43	Ben Chubak	Rincon	33.751751	-118.184839	P4	CBD	1	218.0	Post Construction	North Dolphin	33.752922	-118.18743	Swimming	Porposing	Adult(s)	Unknown	Yes	No	<Null>
9/26/2023 8:57	Ryder Burliss	GHD	33.757467	-118.184643	P2	CBD	1	543.0	Post Construction	North Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Unknown	Yes	No	Was swimming into marina took a turn towards the breakwater appears to be looking for fish where the birds are also fishing
9/26/2023 9:05	Ryder Burliss	GHD	33.757474	-118.184665	P2	CSL	2	540.7	Post Construction	North Dolphin	33.752922	-118.18743	Swimming	Looking	Adult(s)	Mixed	No	No	Swimming out of marina west towards la river along shoreline. Post construction
9/28/2023 9:00	Jason Carroll	MTS	33.72535	-118.179251	P5	PHS	1	2788.8	Pile Driving Vibratory	South Dolphin	33.752922	-118.18743	Looking	Swimming	Adult(s)	Female(s)	No	Yes	<Null>
9/28/2023 9:20	Ed Nieblas	ECorp	33.73975	-118.125764	P7	CSL	1	4827.0	Stand By	South Dolphin	33.752922	-118.18743	Swimming	Porposing	Adult(s)	Male(s)	No	No	<Null>
9/28/2023 9:34	Ben Chubak	Rincon	33.749964	-118.182743	P4	CSL	1	431.2	Pile Driving Vibratory	South Dolphin	33.752922	-118.18743	Swimming	Looking	Juvenile(s)	Unknown	No	Yes	<Null>
9/28/2023 9:42	Ed Nieblas	ECorp	33.73975	-118.125764	P7	CSL	1	5824.0	Stand By	South Dolphin	33.752922	-118.18743	Milling	Swimming	Adult(s)	Male(s)	Yes	No	Feeding
9/28/2023 10:56	Ben Chubak	Rincon	33.749964	-118.182743	P4	CSL	1	439.2	Stand By	South Dolphin	33.752922	-118.18743	Swimming	Looking	Juvenile(s)	Unknown	Yes	No	<Null>
9/28/2023 11:02	Ben Chubak	Rincon	33.749964	-118.182743	P4	CSL	1	438.4	Stand By	South Dolphin	33.752922	-118.18743	Swimming	Looking	Juvenile(s)	Unknown	Yes	No	Possibly chasing bait fish in the area, but seems relaxed
9/28/2023 13:16	Ed Nieblas	ECorp	33.73975	-118.125764	P7	CSL	1	5830.4	Post Construction	South Dolphin	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Male(s)	Yes	No	<Null>

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
9/28/2023 13:20	Ed Nieblas	ECorp	33.73975	-118.125764	P7	CSL	1	5884.9	Post Construction	South Dolphin	33.752922	-118.18743	Swimming	Porpoising	Adult(s)	Male(s)	Yes	No	<Null>
9/29/2023 6:45	Nicholas Fager	Rincon	33.745273	-118.18879	P3	CSL	1	353.2	Stand By or Pre Construction	Center Catwalk	33.752922	-118.18743	Swimming	Looking	Juvenile(s)	Unknown	No	No	<Null>
9/29/2023 6:46	Adam Sachs	Rincon	33.749832	-118.178555	P4	CSL	1	808.7	Pre Construction	Center Catwalk	33.752922	-118.18743	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>
9/29/2023 7:39	Luis Manzo	GHD	33.757491	-118.184679	P2	CSL	1	665.0	Stand By	Center Catwalk	33.752922	-118.18743	Swimming	Swimming	Unknown	<Null>	Yes	No	<Null>
9/29/2023 7:39	Ed Nieblas	ECorp	33.739145	-118.12557	P7	CBD	6	5828.4	Stand By	Center Catwalk	33.752922	-118.18743	Swimming	Swimming	Mixed	Mixed	No	No	<Null>
9/29/2023 8:20	Ed Nieblas	ECorp	33.739172	-118.125521	P7	CSL	1	5916.9	Pile Driving Vibratory	Center Catwalk	33.752922	-118.18743	Swimming	Milling	Adult(s)	Male(s)	No	Yes	<Null>
9/29/2023 8:25	Ed Nieblas	ECorp	33.739172	-118.125521	P7	CSL	1	5930.2	Stand By	Center Catwalk	33.752922	-118.18743	Swimming	Milling	Adult(s)	Male(s)	Yes	No	<Null>
10/2/2023 7:32	Ed Nieblas	ECorp	33.760858	-118.196493	P7	CBD	7	1397.4	Stand By	South Dolphin	33.749672	-118.18743	Swimming	Milling	Mixed	Mixed	No	No	<Null>
10/2/2023 7:55	Ryder Burliss	GHD	33.757457	-118.184612	P2	SBCD	2	792.8	Stand By	South Dolphin	33.749672	-118.18743	Swimming	Milling	Unknown	Unknown	No	No	Milling at the end of the breakwater heading into the marina (pre con)
10/2/2023 8:04	Ryder Burliss	GHD	33.757471	-118.184617	P2	CSL	1	863.8	Pre Construction	South Dolphin	33.749672	-118.18743	Swimming	Diving	Adult(s)	Unknown	No	No	Swimming from LA river into marina direction. Dove under passing me seen swimming into marina 2 minutes later
10/2/2023 9:41	Ryder Burliss	GHD	33.75748	-118.184619	P2	CSL	1	206.5	Stand By	South Dolphin	33.749672	-118.18743	Swimming	Looking	Unknown	Unknown	No	No	<Null>
10/2/2023 9:41	Alex Shepherd	Rincon	33.749875	-118.187278	P1	SBCD	6	687.9	Stand By	South Dolphin	33.749672	-118.18743	Swimming	Milling	Mixed	Mixed	No	No	Small pod of dolphins making their way towards construction (pre vibratory) turned towards LA river then turn again heading east towards marina away from construction during vibratory pile driving
10/2/2023 9:56	Ryder Burliss	GHD	33.757469	-118.184626	P2	CSL	1	518.2	Stand By	South Dolphin	33.749672	-118.18743	Swimming	Diving	Adult(s)	Unknown	No	No	Spotted coming out of LA river during vibe
10/2/2023 10:10	Ben Chubak	Rincon	33.747708	-118.18225	P4	CBD	4	328.1	Stand By	South Dolphin	33.749672	-118.18743	Swimming	Porpoising	Adult(s)	Unknown	Yes	No	Group swimming near port side of cruise ship.
10/2/2023 10:20	Ryder Burliss	GHD	33.757491	-118.184618	P2	CSL	1	901.4	Post Construction	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Adult(s)	Female(s)	No	No	Swimming out of marina into la river (post vibe construction) headed back into marina 10 mins later. Swimming very close to shore
10/2/2023 10:55	Ben Chubak	Rincon	33.747708	-118.18225	P4	CBD	4	264.9	Stand By	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Unknown	Yes	No	<Null>
10/2/2023 12:20	Ryder Burliss	GHD	33.757427	-118.184614	P2	CSL	1	629.3	Pre Construction	South Dolphin	33.749672	-118.18743	Swimming	Diving	Unknown	Unknown	No	No	Pre con
10/3/2023 6:55	Ryder Burliss	GHD	33.757419	-118.184676	P2	CSL	1	724.1	Pre Construction	South Dolphin	33.749672	-118.18743	Swimming	Foraging	Juvenile(s)	Unknown	No	No	fishing many birds diving nearby. Lots of side dives with fin out of the water. About 200m off the stern of cruise ship. Pre-construction
10/3/2023 7:14	Jason Carroll	MTS	33.724357	-118.174458	P5	CSL	1	3255.4	Pre Construction	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Male(s)	No	No	<Null>
10/3/2023 7:15	Ben Chubak	Rincon	33.747857	-118.183124	P4	CSL	1	431.5	Pre Construction or Stand By	South Dolphin	33.749672	-118.18743	Swimming	Looking	Adult(s)	Male(s)	No	No	<Null>
10/3/2023 7:26	Ryder Burliss	GHD	33.757419	-118.184676	P2	CSL	1	576.3	Stand By	South Dolphin	33.749672	-118.18743	Swimming	Foraging	Juvenile(s)	Unknown	Yes	No	Still fishing about 200 m behind cruise ship
10/3/2023 7:57	Ryder Burliss	GHD	33.757419	-118.184676	P2	CSL	1	746.5	Stand By	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Juvenile(s)	Unknown	Yes	No	During vibe swimming away from construction

Sighting Date/Time	Observer Name	Observer Affiliation	Sightings Latitude	Sightings Longitude	Monitoring Location	Species ID Code	Number of Individuals	Species Distance to Activity (m)	Activity	Activity Location	Activity Latitude	Activity Longitude	Primary Behavior	Secondary Behavior	Animal Age	Animal Sex	Resighting	Take	Notes on Behavior
10/3/2023 12:17	Ed Nieblas	ECorp	33.738912	-118.124512	P7	CBD	7	5754.8	Stand By	South Dolphin	33.749672	-118.18743	Swimming	Swimming	Mixed	Mixed	No	No	<Null>
10/3/2023 13:10	Nathalie Treminio	Rincon	33.746055	-118.188918	P3	CSL	1	409.6	Stand By	South Dolphin	33.749672	-118.18743	Swimming	<Null>	Unknown	Unknown	No	No	<Null>
10/4/2023 6:32	Ryder Burliss	GHD	33.757428	-118.18466	P2	CSL	1	718.0	Stand By	Shoreline Access	33.749502	-118.188427	Swimming	Diving	Juvenile(s)	Unknown	No	No	Pre con
10/4/2023 6:58	Ed Nieblas	ECorp	33.739466	-118.125823	P7	CBD	7	6090.5	Stand By	Shoreline Access	33.749502	-118.188427	Swimming	Milling	Mixed	Mixed	No	No	<Null>
10/4/2023 7:27	Ben Chubak	Rincon	33.748307	-118.183348	P4	CBD	1	485.4	Stand By	Shoreline Access	33.749502	-118.188427	Swimming	Looking	Adult(s)	Unknown	No	No	<Null>
10/4/2023 8:12	Nicholas Fager	Rincon	33.745319	-118.188774	P3	CSL	1	167.4	Stand By	Shoreline Access	33.749502	-118.188427	Swimming	Looking	Juvenile(s)	Unknown	No	No	<Null>
10/4/2023 8:52	Ryder Burliss	GHD	33.757428	-118.18466	P2	CSL	1	771.0	Stand By	Shoreline Access	33.749502	-118.188427	Swimming	Swimming	Juvenile(s)	Unknown	No	No	Heading away from construction site. Not during vibe
10/4/2023 9:42	Ben Chubak	Rincon	33.748307	-118.183348	P4	CBD	1	640.2	Stand By	Shoreline Access	33.749502	-118.188427	Swimming	Looking	Adult(s)	Unknown	Yes	No	<Null>
10/4/2023 10:19	Derek Lerma	Rincon	33.751193	-118.187399	P1	CBD	2	710.2	Stand By	Shoreline Access	33.749502	-118.188427	Swimming	<Null>	Mixed	Unknown	Yes	No	<Null>
10/4/2023 10:20	Ryder Burliss	GHD	33.757441	-118.184682	P2	CBD	2	496.7	Stand By	Shoreline Access	33.749502	-118.188427	Swimming	Swimming	Adult(s)	Unknown	No	No	"Came out of the LA river heading away from construction. No vibing during the sighting."
10/4/2023 11:01	Ed Nieblas	ECorp	33.739746	-118.125875	P7	CSL	1	5926.2	Stand By	Shoreline Access	33.749502	-118.188427	Swimming	Milling	Adult(s)	Male(s)	No	No	<Null>
10/4/2023 13:37	Ben Chubak	Rincon	33.748307	-118.183348	P4	CBD	1	534.8	Post Construction	Shoreline Access	33.749502	-118.188427	Swimming	Looking	Adult(s)	Unknown	Yes	No	<Null>
10/5/2023 6:56	Luis Manzo	GHD	33.757424	-118.184645	P2	CBD	2	763.9	Post Construction	Shoreline Access	33.749502	-118.188427	Swimming	Swimming	Unknown	Unknown	No	No	<Null>
10/5/2023 10:57	Ed Nieblas	ECorp	33.739192	-118.124536	P7	CBD	3	6119.9	Stand By	Shoreline Access	33.749502	-118.188427	Swimming	Swimming	Adult(s)	Unknown	No	No	<Null>

APPENDIX B

Monitoring Activity Data

Table B-1: Monitoring Activity Data.

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Stand By	3/8/23 7:37	3/8/23 8:01	No	No	Derek Lerma	Barge pile	Shoreline Access	On-site
Pre Construction	3/8/23 8:01	3/8/23 8:47	No	No	Derek Lerma	Barge pile	Shoreline Access	<Null>
Stand By	3/8/23 8:47	3/8/23 10:29	No	No	Derek Lerma	Barge pile	Shoreline Access	Barge mooring setup
Soft Start Vibratory	3/8/23 10:29	3/8/23 10:29	No	No	Derek Lerma	BP1	Shoreline Access	Only 2 soft starts
Soft Start Vibratory	3/8/23 10:31	3/8/23 10:31	No	No	Derek Lerma	BP1	Shoreline Access	Only 2 soft starts
Soft Start Vibratory	3/8/23 10:33	3/8/23 10:34	No	No	Derek Lerma	BP1	Shoreline Access	Only 2 soft starts
Stand By	3/8/23 10:34	3/8/23 11:20	No	No	Derek Lerma	BP2	Shoreline Access	Standby started after soft start vbe
Soft Start Vibratory	3/8/23 11:23	3/8/23 11:23	No	No	Derek Lerma	BP2	Shoreline Access	<Null>
Soft Start Vibratory	3/8/23 11:24	3/8/23 11:24	No	No	Derek Lerma	BP2	Shoreline Access	<Null>
Soft Start Vibratory	3/8/23 11:28	3/8/23 11:28	No	No	Derek Lerma	BP2	Shoreline Access	<Null>
Pile Driving Vibratory	3/8/23 11:37	3/8/23 11:39	No	No	Derek Lerma	BP2	Shoreline Access	Set up barge
Pile Driving Vibratory	3/8/23 11:40	3/8/23 11:41	No	No	Derek Lerma	BP2	Shoreline Access	<Null>
Post Construction	3/8/23 11:43	3/8/23 12:13	No	No	Derek Lerma	NA	Shoreline Access	<Null>
Pre Construction	3/8/23 14:30	3/8/23 15:00	No	No	Gayle McDermott	NA	Shoreline Access	No marine mammals observed
Soft Start Vibratory	3/8/23 15:08	3/8/23 15:08	No	No	Gayle McDermott	BP3	Shoreline Access	First temporary false work pile installed approximately 30 meters from edge of laydown on north side of barge.
Soft Start Vibratory	3/8/23 15:13	3/8/23 15:13	No	No	Gayle McDermott	BP3	Shoreline Access	First temporary false work pile installed approximately 30 meters from edge of laydown on north side of barge.
Pile Driving Vibratory	3/8/23 15:13	3/8/23 15:14	No	No	Gayle McDermott	BP3	Shoreline Access	Two soft starts and two vibes to get BP3 in.
Pile Driving Vibratory	3/8/23 15:16	3/8/23 15:19	No	No	Gayle McDermott	BP3	Shoreline Access	Two soft starts and two vibes to get BP3 in.
Stand By	3/8/23 15:27	3/8/23 15:21	No	No	Gayle McDermott	NA	Shoreline Access	Waiting for soft start on BP4
Soft Start Vibratory	3/8/23 16:15	3/8/23 16:15	No	No	Gayle McDermott	BP4	Shoreline Access	BP4
Soft Start Vibratory	3/8/23 16:31	3/8/23 16:31	No	No	Gayle McDermott	BP4	Shoreline Access	<Null>
Soft Start Vibratory	3/8/23 16:32	3/8/23 16:33	No	No	Gayle McDermott	BP4	Shoreline Access	<Null>
Pile Driving Vibratory	3/8/23 16:34	3/8/23 16:35	No	No	Gayle McDermott	BP4	Shoreline Access	<Null>
Pile Driving Vibratory	3/8/23 16:36	3/8/23 16:37	No	No	Gayle McDermott	BP4	Shoreline Access	<Null>
Post Construction	3/8/23 16:38	3/8/23 17:08	No	No	Gayle McDermott	NA	Shoreline Access	<Null>
Pre Construction	3/9/23 7:25	3/9/23 9:54	No	No	Gayle McDermott	BP5	Shoreline Access	<Null>
Stand By	3/9/23 7:37	3/9/23 8:01	No	No	Derek Lerma	Barge pile	Shoreline Access	On-site
Pre Construction	3/9/23 8:01	3/9/23 8:47	No	No	Derek Lerma	Barge pile	Shoreline Access	<Null>
Stand By	3/9/23 8:47	3/9/23 10:29	No	No	Derek Lerma	Barge pile	Shoreline Access	Barge mooring setup
Soft Start Vibratory	3/9/23 9:55	3/9/23 9:56	No	No	Gayle McDermott	BP5	Shoreline Access	<Null>
Soft Start Vibratory	3/9/23 9:57	3/9/23 9:57	No	No	Gayle McDermott	BP5	Shoreline Access	<Null>
Pile Driving Vibratory	3/9/23 9:58	3/9/23 9:59	No	No	Gayle McDermott	BP5	Shoreline Access	<Null>
Pile Driving Vibratory	3/9/23 10:01	3/9/23 10:02	No	No	Gayle McDermott	BP5	Shoreline Access	<Null>
Pile Driving Vibratory	3/9/23 10:02	3/9/23 10:03	No	No	Gayle McDermott	BP5	Shoreline Access	<Null>
Stand By	3/9/23 10:06	3/9/23 11:15	No	No	Gayle McDermott	BP5	Shoreline Access	<Null>
Soft Start Vibratory	3/9/23 10:29	3/9/23 10:29	No	No	Derek Lerma	BP5	Shoreline Access	Only 2 soft starts
Soft Start Vibratory	3/9/23 10:31	3/9/23 10:31	No	No	Derek Lerma	BP5	Shoreline Access	Only 2 soft starts
Soft Start Vibratory	3/9/23 10:33	3/9/23 10:34	No	No	Derek Lerma	BP5	Shoreline Access	Only 2 soft starts
Stand By	3/9/23 10:34	3/9/23 11:20	No	No	Derek Lerma	BP5	Shoreline Access	Standby started after soft start vbe
Soft Start Vibratory	3/9/23 11:15	3/9/23 11:15	No	No	Gayle McDermott	BP6	Shoreline Access	Second pile of the day.
Soft Start Vibratory	3/9/23 11:17	3/9/23 11:17	No	No	Gayle McDermott	BP6	Shoreline Access	Second pile of the day.
Pile Driving Vibratory	3/9/23 11:18	3/9/23 11:18	No	No	Gayle McDermott	BP6	Shoreline Access	<Null>
Pile Driving Vibratory	3/9/23 11:20	3/9/23 11:21	No	No	Gayle McDermott	BP6	Shoreline Access	<Null>
Pile Driving Vibratory	3/9/23 11:21	3/9/23 11:23	No	No	Gayle McDermott	BP6	Shoreline Access	<Null>
Soft Start Vibratory	3/9/23 11:23	3/9/23 11:23	No	No	Derek Lerma	BP2	Shoreline Access	<Null>
Pile Driving Vibratory	3/9/23 11:24	3/9/23 11:25	No	No	Gayle McDermott	BP6	Shoreline Access	<Null>
Soft Start Vibratory	3/9/23 11:24	3/9/23 11:24	No	No	Derek Lerma	BP2	Shoreline Access	<Null>
Post Construction	3/9/23 11:28	3/9/23 11:58	No	No	Gayle McDermott	NA	Shoreline Access	<Null>
Soft Start Vibratory	3/9/23 11:28	3/9/23 11:28	No	No	Derek Lerma	BP2	Shoreline Access	<Null>
Pile Driving Vibratory	3/9/23 11:37	3/9/23 11:39	No	No	Derek Lerma	BP2	Shoreline Access	Set up barge
Pile Driving Vibratory	3/9/23 11:40	3/9/23 11:41	No	No	Derek Lerma	BP2	Shoreline Access	<Null>
Post Construction	3/9/23 11:43	3/9/23 12:13	No	No	Derek Lerma	NA	Shoreline Access	<Null>
Pre Construction	3/9/23 14:30	3/9/23 15:00	No	No	Gayle McDermott	NA	Shoreline Access	No marine mammals observed
Soft Start Vibratory	3/9/23 15:08	3/9/23 15:08	No	No	Gayle McDermott	BP3	Shoreline Access	First temporary false work pile installed approximately 30 meters from edge of laydown on north side of barge.
Pile Driving Vibratory	3/9/23 15:13	3/9/23 15:14	No	No	Gayle McDermott	BP3	Shoreline Access	Two soft starts and two vibes to get BP3 in.
Soft Start Vibratory	3/9/23 15:13	3/9/23 15:13	No	No	Gayle McDermott	BP3	Shoreline Access	First temporary false work pile installed approximately 30 meters from edge of laydown on north side of barge.
Pile Driving Vibratory	3/9/23 15:16	3/9/23 15:19	No	No	Gayle McDermott	BP3	Shoreline Access	Two soft starts and two vibes to get BP3 in.
Stand By	3/9/23 15:27	3/9/23 15:21	No	No	Gayle McDermott	NA	Shoreline Access	Waiting for soft start on BP4
Soft Start Vibratory	3/9/23 16:15	3/9/23 16:15	No	No	Gayle McDermott	BP4	Shoreline Access	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Soft Start Vibratory	3/9/23 16:31	3/9/23 16:31	No	No	Gayle McDermott	BP4	Shoreline Access	<Null>
Soft Start Vibratory	3/9/23 16:32	3/9/23 16:33	No	No	Gayle McDermott	BP4	Shoreline Access	<Null>
Pile Driving Vibratory	3/9/23 16:34	3/9/23 16:35	No	No	Gayle McDermott	BP4	Shoreline Access	<Null>
Pile Driving Vibratory	3/9/23 16:36	3/9/23 16:37	No	No	Gayle McDermott	BP4	Shoreline Access	<Null>
Post Construction	3/9/23 16:38	3/9/23 17:08	No	No	Gayle McDermott	NA	Shoreline Access	<Null>
Pre Construction	3/10/23 9:00	3/10/23 10:10	No	No	Gayle McDermott	BP7 -FP1	Center Catwalk	First falsework pile near the pier. North end of southern pier near gangway.
Soft Start Vibratory	3/10/23 10:11	3/10/23 10:11	No	No	Gayle McDermott	BP7 -FP1	Center Catwalk	<Null>
Soft Start Vibratory	3/10/23 10:11	3/10/23 10:12	No	No	Gayle McDermott	BP7 -FP1	Center Catwalk	<Null>
Pile Driving Vibratory	3/10/23 10:12	3/10/23 10:12	No	No	Gayle McDermott	BP7 -FP1	Center Catwalk	<Null>
Pile Driving Vibratory	3/10/23 10:13	3/10/23 10:14	No	No	Gayle McDermott	BP7 -FP1	Center Catwalk	<Null>
Pile Driving Vibratory	3/10/23 10:14	3/10/23 10:16	No	No	Gayle McDermott	BP7 -FP1	Center Catwalk	<Null>
Pile Driving Vibratory	3/10/23 10:16	3/10/23 10:17	No	No	Gayle McDermott	BP7 -FP1	Center Catwalk	<Null>
Pile Driving Vibratory	3/10/23 10:18	3/10/23 10:22	No	No	Gayle McDermott	BP7 -FP1	Center Catwalk	<Null>
Pile Driving Vibratory	3/10/23 10:23	3/10/23 10:24	No	No	Gayle McDermott	BP7 -FP1	Center Catwalk	<Null>
Post Construction	3/10/23 10:25	3/10/23 10:55	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Stand By	3/10/23 10:55	3/10/23 0:00	No	No	Gayle McDermott	BP8-FP2	Center Catwalk	<Null>
Pre Construction	3/10/23 12:00	3/10/23 12:30	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Soft Start Vibratory	3/10/23 13:08	3/10/23 13:08	No	No	Gayle McDermott	BP8-FP2	Center Catwalk	<Null>
Soft Start Vibratory	3/10/23 13:08	3/10/23 13:09	No	No	Gayle McDermott	BP8-FP2	Center Catwalk	<Null>
Pile Driving Vibratory	3/10/23 13:10	3/10/23 13:10	No	No	Gayle McDermott	BP8-FP2	Center Catwalk	<Null>
Pile Driving Vibratory	3/10/23 13:11	3/10/23 13:11	No	No	Gayle McDermott	BP8-FP2	Center Catwalk	<Null>
Pile Driving Vibratory	3/10/23 13:11	3/10/23 13:18	No	No	Gayle McDermott	BP8-FP2	Center Catwalk	<Null>
Pile Driving Vibratory	3/10/23 13:19	3/10/23 13:19	No	No	Gayle McDermott	BP8-FP2	Center Catwalk	<Null>
Post Construction	3/10/23 13:21	3/10/23 13:41	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Pre Construction	3/13/23 8:30	3/13/23 9:11	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	<Null>
Soft Start Vibratory	3/13/23 9:11	3/13/23 9:12	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	9th pile overall, third false work pile near pier
Soft Start Vibratory	3/13/23 9:12	3/13/23 9:12	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	9th pile overall, third false work pile near pier
Pile Driving Vibratory	3/13/23 9:13	3/13/23 9:14	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 9:15	3/13/23 9:17	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 9:17	3/13/23 9:19	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 9:20	3/13/23 9:21	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 9:21	3/13/23 9:23	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 9:23	3/13/23 9:25	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 9:26	3/13/23 10:08	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 10:08	3/13/23 10:11	No	No	Gayle McDermott	BP9 -FP3	Center Catwalk	Having a hard time getting this pile in. Vibe for a long time, then tried vibing out and back in, slowing engine down and revving back up. 1012, hit something hard. Decided to cut pile as is. Next pile after lunch.
Post Construction	3/13/23 10:11	3/13/23 10:41	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Pre Construction	3/13/23 12:00	3/13/23 11:05	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Soft Start Vibratory	3/13/23 14:00	3/13/23 14:01	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Soft Start Vibratory	3/13/23 14:01	3/13/23 14:01	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 14:01	3/13/23 14:03	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 14:03	3/13/23 14:04	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 14:04	3/13/23 14:05	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Post Construction	3/13/23 14:05	3/13/23 14:35	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Pre Construction	3/13/23 14:35	3/13/23 15:33	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Soft Start Vibratory	3/13/23 15:34	3/13/23 15:34	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Soft Start Vibratory	3/13/23 15:35	3/13/23 15:35	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 15:35	3/13/23 15:36	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	3/13/23 15:36	3/13/23 15:36	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 15:37	3/13/23 15:37	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 15:38	3/13/23 15:39	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Pile Driving Vibratory	3/13/23 15:39	3/13/23 15:57	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Post Construction	3/13/23 15:57	3/13/23 16:27	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Pre Construction	3/14/23 8:00	3/14/23 9:01	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Pre Construction	3/14/23 8:30	3/14/23 9:11	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	<Null>
Soft Start Vibratory	3/14/23 9:02	3/14/23 9:03	No	No	Gayle McDermott	BP12-FP6	Center Catwalk	Fifth falsework pile by pier.
Soft Start Vibratory	3/14/23 9:02	3/14/23 9:02	No	No	Gayle McDermott	BP12-FP6	Center Catwalk	Fifth falsework pile by pier.
Pile Driving Vibratory	3/14/23 9:03	3/14/23 9:04	No	No	Gayle McDermott	BP12-FP6	Center Catwalk	Began vibrate but the hammer needed to be rotated. Took hammer off and replaced between vibrate.
Pile Driving Vibratory	3/14/23 9:04	3/14/23 9:04	No	No	Gayle McDermott	BP12-FP6	Center Catwalk	Began vibrate but the hammer needed to be rotated. Took hammer off and replaced between vibrate.
Pile Driving Vibratory	3/14/23 9:05	3/14/23 9:06	No	No	Gayle McDermott	BP12-FP6	Center Catwalk	Began vibrate but the hammer needed to be rotated. Took hammer off and replaced between vibrate.
Pile Driving Vibratory	3/14/23 9:06	3/14/23 9:06	No	No	Gayle McDermott	BP12-FP6	Center Catwalk	Began vibrate but the hammer needed to be rotated. Took hammer off and replaced between vibrate.
Soft Start Vibratory	3/14/23 9:11	3/14/23 9:12	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	9th pile overall, third false work pile near pier
Soft Start Vibratory	3/14/23 9:12	3/14/23 9:12	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	9th pile overall, third false work pile near pier
Pile Driving Vibratory	3/14/23 9:13	3/14/23 9:14	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 9:15	3/14/23 9:17	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 9:17	3/14/23 9:19	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	<Null>
Soft Start Vibratory	3/14/23 9:18	3/14/23 9:18	No	No	Gayle McDermott	BP12-FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 9:20	3/14/23 9:28	No	No	Gayle McDermott	BP12-FP6	Center Catwalk	<Null>
Soft Start Vibratory	3/14/23 9:20	3/14/23 9:20	No	No	Gayle McDermott	BP12-FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 9:20	3/14/23 9:21	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 9:21	3/14/23 9:23	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 9:23	3/14/23 9:25	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 9:26	3/14/23 10:08	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	<Null>
Post Construction	3/14/23 9:29	3/14/23 9:59	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 10:08	3/14/23 10:11	No	No	Gayle McDermott	BP9-FP3	Center Catwalk	<Null>
Post Construction	3/14/23 10:11	3/14/23 10:41	No	No	Gayle McDermott	<Null>	Center Catwalk	<Null>
Pre Construction	3/14/23 12:00	3/14/23 11:05	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Soft Start Vibratory	3/14/23 14:00	3/14/23 14:01	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 14:01	3/14/23 14:03	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Soft Start Vibratory	3/14/23 14:01	3/14/23 14:01	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 14:03	3/14/23 14:04	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 14:04	3/14/23 14:05	No	No	Gayle McDermott	BP10-FP4	Center Catwalk	<Null>
Post Construction	3/14/23 14:05	3/14/23 14:35	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Pre Construction	3/14/23 14:35	3/14/23 15:33	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Soft Start Vibratory	3/14/23 15:34	3/14/23 15:34	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 15:35	3/14/23 15:36	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Soft Start Vibratory	3/14/23 15:35	3/14/23 15:35	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 15:36	3/14/23 15:36	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 15:37	3/14/23 15:37	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 15:38	3/14/23 15:39	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Pile Driving Vibratory	3/14/23 15:39	3/14/23 15:57	No	No	Gayle McDermott	BP11-FP5	Center Catwalk	<Null>
Post Construction	3/14/23 15:57	3/14/23 16:27	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Stand By	3/15/23 7:41	3/15/23 8:12	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Stand By	3/15/23 7:41	3/15/23 8:12	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Stand By	3/15/23 7:41	3/15/23 8:12	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pre Construction	3/15/23 8:13	3/15/23 8:57	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pre Construction	3/15/23 8:13	3/15/23 8:57	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pre Construction	3/15/23 8:13	3/15/23 8:57	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Soft Start Vibratory	3/15/23 8:58	3/15/23 8:58	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Soft Start Vibratory	3/15/23 8:58	3/15/23 8:58	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Soft Start Vibratory	3/15/23 8:58	3/15/23 8:58	No	No	Derek Lerma	FP6	Center Catwalk	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Soft Start Impact	3/15/23 11:31	3/15/23 11:31	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Soft Start Impact	3/15/23 11:31	3/15/23 11:31	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Soft Start Impact	3/15/23 11:31	3/15/23 11:31	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Soft Start Impact	3/15/23 11:32	3/15/23 11:32	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Soft Start Impact	3/15/23 11:32	3/15/23 11:32	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Soft Start Impact	3/15/23 11:32	3/15/23 11:32	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Soft Start Impact	3/15/23 11:33	3/15/23 11:34	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Soft Start Impact	3/15/23 11:33	3/15/23 11:34	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Soft Start Impact	3/15/23 11:33	3/15/23 11:34	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Pile Driving Vibratory	3/15/23 11:34	3/15/23 11:35	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:34	3/15/23 11:35	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:34	3/15/23 11:35	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:36	3/15/23 11:36	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:36	3/15/23 11:36	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:36	3/15/23 11:36	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:43	3/15/23 11:43	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:43	3/15/23 11:43	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:43	3/15/23 11:43	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:44	3/15/23 11:44	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:44	3/15/23 11:44	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:44	3/15/23 11:44	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:45	3/15/23 11:46	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:45	3/15/23 11:46	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:45	3/15/23 11:46	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:46	3/15/23 11:47	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:46	3/15/23 11:47	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:46	3/15/23 11:47	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:48	3/15/23 11:48	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:48	3/15/23 11:48	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:48	3/15/23 11:48	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/15/23 11:49	3/15/23 11:49	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Post Construction	3/15/23 11:49	3/15/23 12:19	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Pile Driving Vibratory	3/15/23 11:49	3/15/23 11:49	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Post Construction	3/15/23 11:49	3/15/23 12:19	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Pile Driving Vibratory	3/15/23 11:49	3/15/23 11:49	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Post Construction	3/15/23 11:49	3/15/23 12:19	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Pre Construction	3/15/23 12:50	3/15/23 13:20	No	No	Derek Lerma	NA	Center Catwalk	After lunch
Soft Start Vibratory	3/15/23 13:20	3/15/23 13:20	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Soft Start Vibratory	3/15/23 13:20	3/15/23 13:20	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Soft Start Vibratory	3/15/23 13:20	3/15/23 13:20	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Soft Start Vibratory	3/15/23 13:21	3/15/23 13:21	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Soft Start Vibratory	3/15/23 13:21	3/15/23 13:21	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Pile Driving Vibratory	3/15/23 13:21	3/15/23 13:27	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Soft Start Vibratory	3/15/23 13:21	3/15/23 13:21	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Soft Start Vibratory	3/15/23 13:21	3/15/23 13:21	No	No	Derek Lerma	Fp5	Center Catwalk	Remove

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	3/15/23 15:32	3/15/23 15:33	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/15/23 15:32	3/15/23 15:33	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/15/23 15:39	3/15/23 15:40	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/15/23 15:39	3/15/23 15:40	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/15/23 15:39	3/15/23 15:40	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Post Construction	3/15/23 15:45	3/15/23 16:15	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Stand By	3/16/23 7:41	3/16/23 8:12	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pre Construction	3/16/23 8:13	3/16/23 8:57	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Soft Start Vibratory	3/16/23 8:58	3/16/23 8:58	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Soft Start Vibratory	3/16/23 9:00	3/16/23 9:01	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:01	3/16/23 9:02	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Soft Start Vibratory	3/16/23 9:01	3/16/23 9:01	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:04	3/16/23 9:04	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:05	3/16/23 9:06	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:10	3/16/23 9:11	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:12	3/16/23 9:22	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:27	3/16/23 9:27	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:28	3/16/23 9:28	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:31	3/16/23 9:33	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:57	3/16/23 9:57	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:58	3/16/23 10:02	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 9:58	3/16/23 9:58	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 10:02	3/16/23 10:05	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 10:26	3/16/23 10:32	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 10:34	3/16/23 10:34	No	No	Derek Lerma	FP6	Center Catwalk	<Null>
Soft Start Impact	3/16/23 11:31	3/16/23 11:31	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Soft Start Impact	3/16/23 11:32	3/16/23 11:32	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Soft Start Impact	3/16/23 11:33	3/16/23 11:34	No	No	Derek Lerma	FP7	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 11:34	3/16/23 11:35	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/16/23 11:36	3/16/23 11:36	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/16/23 11:43	3/16/23 11:43	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/16/23 11:44	3/16/23 11:44	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/16/23 11:45	3/16/23 11:46	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/16/23 11:46	3/16/23 11:47	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pile Driving Vibratory	3/16/23 11:48	3/16/23 11:48	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Post Construction	3/16/23 11:49	3/16/23 12:19	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Pile Driving Vibratory	3/16/23 11:49	3/16/23 11:49	No	No	Derek Lerma	Fp7	Center Catwalk	Drive in NE corner
Pre Construction	3/16/23 12:50	3/16/23 13:20	No	No	Derek Lerma	NA	Center Catwalk	After lunch
Soft Start Vibratory	3/16/23 13:20	3/16/23 13:20	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Pile Driving Vibratory	3/16/23 13:21	3/16/23 13:27	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Soft Start Vibratory	3/16/23 13:21	3/16/23 13:21	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Soft Start Vibratory	3/16/23 13:21	3/16/23 13:21	No	No	Derek Lerma	Fp5	Center Catwalk	Remove
Pile Driving Vibratory	3/16/23 13:51	3/16/23 13:51	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 13:53	3/16/23 13:53	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 13:54	3/16/23 13:55	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 13:55	3/16/23 13:56	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 13:56	3/16/23 13:57	No	No	Derek Lerma	Fp8	Center Catwalk	Drive

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	3/16/23 13:58	3/16/23 13:58	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:00	3/16/23 14:03	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:18	3/16/23 14:19	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:19	3/16/23 14:20	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:21	3/16/23 14:21	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:27	3/16/23 14:28	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:29	3/16/23 14:29	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:30	3/16/23 14:31	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:32	3/16/23 14:33	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:34	3/16/23 14:35	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:36	3/16/23 14:37	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:39	3/16/23 14:40	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:41	3/16/23 14:41	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 14:43	3/16/23 14:43	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:05	3/16/23 15:06	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:06	3/16/23 15:07	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:06	3/16/23 15:06	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:07	3/16/23 15:11	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:13	3/16/23 15:14	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:18	3/16/23 15:19	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:28	3/16/23 15:28	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:29	3/16/23 15:30	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:30	3/16/23 15:31	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:32	3/16/23 15:33	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Pile Driving Vibratory	3/16/23 15:39	3/16/23 15:40	No	No	Derek Lerma	Fp8	Center Catwalk	Drive
Post Construction	3/16/23 15:45	3/16/23 15:45	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Stand By	3/17/23 8:14	3/17/23 8:30	No	No	Adam Sachs	NA	Center Catwalk	On site.
Soft Start Impact	3/17/23 8:30	3/17/23 9:00	No	No	Adam Sachs	FP 8	Center Catwalk	Pre- construction, falsework piles (FP)
Soft Start Vibratory	3/17/23 9:00	3/17/23 9:16	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 9:16	3/17/23 9:18	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 9:16	3/17/23 9:16	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 9:16	3/17/23 9:16	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 9:19	3/17/23 9:20	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 9:21	3/17/23 9:22	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 9:27	3/17/23 9:27	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 9:28	3/17/23 9:29	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 9:29	3/17/23 9:30	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 9:30	3/17/23 9:31	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 9:32	3/17/23 9:32	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 9:33	3/17/23 9:34	No	No	Adam Sachs	FP 8	Center Catwalk	<Null>
Stand By	3/17/23 9:39	3/17/23 9:54	No	No	Adam Sachs	NA	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 9:55	3/17/23 9:55	No	No	Adam Sachs	FP 4	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 9:56	3/17/23 9:56	No	No	Adam Sachs	FP 4	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 10:18	3/17/23 10:19	No	No	Adam Sachs	FP4	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 10:20	3/17/23 10:22	No	No	Adam Sachs	FP4	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 10:23	3/17/23 10:23	No	No	Adam Sachs	FP4	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 10:24	3/17/23 10:24	No	No	Adam Sachs	FP4	Center Catwalk	<Null>
Stand By	3/17/23 10:33	3/17/23 10:50	No	No	Adam Sachs	NA	Center Catwalk	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	3/17/23 10:50	3/17/23 10:56	No	No	Adam Sachs	FP 1	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 10:57	3/17/23 10:59	No	No	Adam Sachs	FP 1	Center Catwalk	<Null>
Stand By	3/17/23 11:05	3/17/23 11:05	No	No	Adam Sachs	NA	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 11:54	3/17/23 11:55	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 11:55	3/17/23 11:55	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Post Construction	3/17/23 11:57	3/17/23 12:27	No	No	Adam Sachs	NA	Center Catwalk	<Null>
Stand By	3/17/23 12:27	3/17/23 13:00	No	No	Adam Sachs	NA	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 13:03	3/17/23 13:04	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 13:04	3/17/23 13:04	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 13:05	3/17/23 13:06	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 13:07	3/17/23 13:08	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 13:08	3/17/23 13:09	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 13:09	3/17/23 13:10	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 13:10	3/17/23 13:11	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 13:11	3/17/23 13:12	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 13:13	3/17/23 13:13	No	No	Adam Sachs	FP 6.5	Center Catwalk	<Null>
Stand By	3/17/23 13:17	3/17/23 13:57	No	No	Adam Sachs	NA	Center Catwalk	<Null>
Pre Construction	3/17/23 13:57	3/17/23 14:27	No	No	Adam Sachs	NA	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 14:27	3/17/23 14:27	No	No	Adam Sachs	NA	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 14:28	3/17/23 14:29	No	No	Adam Sachs	FP 9	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 14:28	3/17/23 14:28	No	No	Adam Sachs	FP 9	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 14:28	3/17/23 14:28	No	No	Adam Sachs	FP 9	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 14:30	3/17/23 14:31	No	No	Adam Sachs	FP 9	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 14:31	3/17/23 14:32	No	No	Adam Sachs	FP 9	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 14:33	3/17/23 14:35	No	No	Adam Sachs	FP 9	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 14:35	3/17/23 14:36	No	No	Adam Sachs	FP 9	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 14:36	3/17/23 14:37	No	No	Adam Sachs	FP 9	Center Catwalk	<Null>
Stand By	3/17/23 14:37	3/17/23 15:26	No	No	Adam Sachs	NA	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 15:26	3/17/23 15:26	No	No	Adam Sachs	FP 10	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 15:27	3/17/23 15:27	No	No	Adam Sachs	FP 10	Center Catwalk	<Null>
Soft Start Vibratory	3/17/23 15:28	3/17/23 15:28	No	No	Adam Sachs	FP 10	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 15:29	3/17/23 15:30	No	No	Adam Sachs	FP 10	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 15:29	3/17/23 15:29	No	No	Adam Sachs	FP 10	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 15:31	3/17/23 15:32	No	No	Adam Sachs	FP 10	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 15:32	3/17/23 15:33	No	No	Adam Sachs	FP 10	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 15:34	3/17/23 15:37	No	No	Adam Sachs	FP 10	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 15:37	3/17/23 15:46	No	No	Adam Sachs	FP 10	Center Catwalk	<Null>
Pile Driving Vibratory	3/17/23 15:47	3/17/23 15:47	No	No	Adam Sachs	FP 10	Center Catwalk	<Null>
Post Construction	3/17/23 15:54	3/17/23 16:24	No	No	Adam Sachs	NA	Center Catwalk	<Null>
Pre Construction	3/18/23 8:05	3/18/23 10:36	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Soft Start Vibratory	3/18/23 10:37	3/18/23 10:37	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	Eighth falsework pile, fourteenth overall
Soft Start Vibratory	3/18/23 10:37	3/18/23 10:37	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	Eighth falsework pile, fourteenth overall
Pile Driving Vibratory	3/18/23 10:38	3/18/23 10:38	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Pile Driving Vibratory	3/18/23 10:40	3/18/23 10:40	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Pile Driving Vibratory	3/18/23 10:41	3/18/23 10:41	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	3/18/23 10:42	3/18/23 10:42	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Pile Driving Vibratory	3/18/23 10:43	3/18/23 10:44	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Pile Driving Vibratory	3/18/23 10:44	3/18/23 10:46	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Pile Driving Vibratory	3/18/23 10:46	3/18/23 10:48	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Pile Driving Vibratory	3/18/23 10:49	3/18/23 10:50	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Pile Driving Vibratory	3/18/23 10:50	3/18/23 10:51	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	Drove down aways, then had to stop to rotate the hammer.
Pile Driving Vibratory	3/18/23 10:55	3/18/23 10:58	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Pile Driving Vibratory	3/18/23 10:58	3/18/23 10:59	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Pile Driving Vibratory	3/18/23 11:00	3/18/23 11:00	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Pile Driving Vibratory	3/18/23 11:01	3/18/23 11:01	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Post Construction	3/18/23 11:02	3/18/23 11:32	No	No	Gayle McDermott	BP14-FP14	Center Catwalk	<Null>
Stand By	3/20/23 7:45	3/20/23 9:32	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Pre Construction	3/20/23 8:25	3/20/23 8:50	No	No	Gayle McDermott	NA	Center Catwalk	Standby day. Mobilized but did not start.
Pre Construction	3/20/23 9:32	3/20/23 13:49	No	No	Derek Lerma	NA	Center Catwalk	South dolphin
Soft Start Vibratory	3/20/23 13:49	3/20/23 13:49	No	No	Derek Lerma	FP8	Center Catwalk	<Null>
Soft Start Vibratory	3/20/23 13:50	3/20/23 13:50	No	No	Derek Lerma	FP8	Center Catwalk	<Null>
Soft Start Vibratory	3/20/23 13:51	3/20/23 13:51	No	No	Derek Lerma	FP8	Center Catwalk	<Null>
Pile Driving Vibratory	3/20/23 13:51	3/20/23 13:52	No	No	Derek Lerma	Fp8	Center Catwalk	<Null>
Pile Driving Vibratory	3/20/23 13:53	3/20/23 13:53	No	No	Derek Lerma	Fp8	Center Catwalk	<Null>
Pile Driving Vibratory	3/20/23 13:53	3/20/23 13:54	No	No	Derek Lerma	Fp8	Center Catwalk	<Null>
Pile Driving Vibratory	3/20/23 13:55	3/20/23 13:56	No	No	Derek Lerma	Fp8	Center Catwalk	<Null>
Pile Driving Vibratory	3/20/23 13:56	3/20/23 13:58	No	No	Derek Lerma	Fp8	Center Catwalk	<Null>
Soft Start Vibratory	3/20/23 15:05	3/20/23 15:05	No	No	Derek Lerma	Fp8	Center Catwalk	Fp9
Soft Start Vibratory	3/20/23 15:05	3/20/23 15:05	No	No	Derek Lerma	Fp8	Center Catwalk	Fp9
Soft Start Vibratory	3/20/23 15:06	3/20/23 15:06	No	No	Derek Lerma	Fp8	Center Catwalk	Fp9
Pile Driving Vibratory	3/20/23 15:07	3/20/23 15:08	No	No	Derek Lerma	Fp9	Center Catwalk	<Null>
Pile Driving Vibratory	3/20/23 15:08	3/20/23 15:08	No	No	Derek Lerma	Fp9	Center Catwalk	<Null>
Pile Driving Vibratory	3/20/23 15:09	3/20/23 15:11	No	No	Derek Lerma	Fp9	Center Catwalk	<Null>
Pile Driving Vibratory	3/20/23 15:12	3/20/23 15:19	No	No	Derek Lerma	Fp9	Center Catwalk	<Null>
Stand By	3/20/23 15:20	3/20/23 16:24	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Stand By	3/20/23 15:52	3/20/23 15:52	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Soft Start Impact	3/20/23 16:25	3/20/23 16:25	No	No	Derek Lerma	Fp9	Center Catwalk	<Null>
Soft Start Impact	3/20/23 16:25	3/20/23 16:25	No	No	Derek Lerma	Fp9	Center Catwalk	<Null>
Soft Start Impact	3/20/23 16:25	3/20/23 16:25	No	No	Derek Lerma	Fp9	Center Catwalk	<Null>
Pile Driving Vibratory	3/20/23 16:26	3/20/23 16:26	No	No	Derek Lerma	Fp10	Center Catwalk	<Null>
Pile Driving Vibratory	3/20/23 16:27	3/20/23 16:27	No	No	Derek Lerma	Fp10	Center Catwalk	<Null>
Post Construction	3/20/23 16:27	3/20/23 16:57	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Pre Construction	3/28/23 16:00	3/28/23 18:18	No	No	Gayle McDermott	GT-7	Center Catwalk	Arrived at 0700 for first pile at 0830. Manny confirmed no pile driving until after lunch. All PSOs on standby from 0730-1530. Got GT-7 and GT-4 in place. Only videdGT-7.
Pile Driving Vibratory	3/28/23 18:19	3/28/23 18:20	No	No	Gayle McDermott	GT-7	Center Catwalk	<Null>
Soft Start Vibratory	3/28/23 18:19	3/28/23 18:19	No	No	Gayle McDermott	GT-7	Center Catwalk	<Null>
Soft Start Vibratory	3/28/23 18:19	3/28/23 18:19	No	No	Gayle McDermott	GT-7	Center Catwalk	<Null>
Pile Driving Vibratory	3/28/23 18:21	3/28/23 18:22	No	No	Gayle McDermott	GT-7	Center Catwalk	<Null>
Pile Driving Vibratory	3/28/23 18:23	3/28/23 18:26	No	No	Gayle McDermott	GT-7	Center Catwalk	<Null>
Post Construction	3/28/23 18:26	3/28/23 18:56	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Stand By	3/29/23 7:55	3/29/23 8:39	No	No	Derek Lerma	NA	Center Catwalk	Start of day on site
Pre Construction	3/29/23 8:39	3/29/23 9:41	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Soft Start Vibratory	3/29/23 9:48	3/29/23 9:48	No	No	Derek Lerma	GT-4	Center Catwalk	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Soft Start Vibratory	3/29/23 9:49	3/29/23 9:49	No	No	Derek Lerma	GT-4	Center Catwalk	<Null>
Soft Start Vibratory	3/29/23 9:49	3/29/23 9:49	No	No	Derek Lerma	GT-4	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 9:50	3/29/23 9:51	No	No	Derek Lerma	GT-4	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 9:51	3/29/23 9:52	No	No	Derek Lerma	GT-4	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 9:52	3/29/23 9:56	No	No	Derek Lerma	GT-4	Center Catwalk	<Null>
Post Construction	3/29/23 9:53	3/29/23 10:53	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 9:59	3/29/23 9:59	No	No	Derek Lerma	GT-4	Center Catwalk	<Null>
Pre Construction	3/29/23 12:49	3/29/23 12:49	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Soft Start Vibratory	3/29/23 13:16	3/29/23 13:16	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Soft Start Vibratory	3/29/23 13:17	3/29/23 13:17	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 13:18	3/29/23 13:19	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Soft Start Vibratory	3/29/23 13:18	3/29/23 13:18	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 13:19	3/29/23 13:20	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 13:20	3/29/23 13:20	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 13:21	3/29/23 13:24	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 13:36	3/29/23 13:37	No	No	Derek Lerma	GT-9	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 13:37	3/29/23 13:38	No	No	Derek Lerma	GT-9	Center Catwalk	<Null>
Pile Driving Vibratory	3/29/23 13:38	3/29/23 13:41	No	No	Derek Lerma	GT-9	Center Catwalk	<Null>
Soft Start Impact	3/29/23 17:03	3/29/23 17:03	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Soft Start Impact	3/29/23 17:04	3/29/23 17:04	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Impact	3/29/23 17:05	3/29/23 17:12	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Soft Start Impact	3/29/23 17:05	3/29/23 17:05	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Post Construction	3/29/23 17:13	3/29/23 17:46	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Pre Construction	3/30/23 8:00	3/30/23 10:14	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Soft Start Impact	3/30/23 10:15	3/30/23 10:15	No	No	Gayle McDermott	GT-9	Center Catwalk	<Null>
Pile Driving Impact	3/30/23 10:16	3/30/23 10:20	No	No	Gayle McDermott	GT-9	Center Catwalk	Stopped at 1020 when something fell off hammer into the water. Checked. Bolt needed replacing.
Soft Start Impact	3/30/23 10:16	3/30/23 10:16	No	No	Gayle McDermott	GT-9	Center Catwalk	<Null>
Soft Start Impact	3/30/23 10:16	3/30/23 10:16	No	No	Gayle McDermott	GT-9	Center Catwalk	<Null>
Pile Driving Impact	3/30/23 10:48	3/30/23 10:53	No	No	Gayle McDermott	GT-9	Center Catwalk	<Null>
Pile Driving Impact	3/30/23 10:53	3/30/23 10:54	No	No	Gayle McDermott	GT-9	Center Catwalk	<Null>
Pile Driving Impact	3/30/23 11:25	3/30/23 11:26	No	No	Gayle McDermott	GT-3	Center Catwalk	<Null>
Pre Construction	3/30/23 13:00	3/30/23 16:10	No	No	Gayle McDermott	NA	Center Catwalk	<Null>
Soft Start Impact	3/30/23 13:03	3/30/23 11:25	No	No	Gayle McDermott	GT-3	Center Catwalk	<Null>
Soft Start Impact	3/30/23 13:04	3/30/23 13:04	No	No	Gayle McDermott	GT-9	Center Catwalk	<Null>
Soft Start Vibratory	3/30/23 16:11	3/30/23 16:11	No	No	Gayle McDermott	GT-2	Center Catwalk	<Null>
Soft Start Vibratory	3/30/23 16:11	3/30/23 16:11	No	No	Gayle McDermott	GT-2	Center Catwalk	<Null>
Pile Driving Vibratory	3/30/23 16:12	3/30/23 16:12	No	No	Gayle McDermott	GT-2	Center Catwalk	<Null>
Pile Driving Vibratory	3/30/23 16:13	3/30/23 16:13	No	No	Gayle McDermott	GT-2	Center Catwalk	<Null>
Pile Driving Vibratory	3/30/23 16:14	3/30/23 16:14	No	No	Gayle McDermott	GT-2	Center Catwalk	<Null>
Pile Driving Vibratory	3/30/23 16:15	3/30/23 16:16	No	No	Gayle McDermott	GT-2	Center Catwalk	<Null>
Pile Driving Vibratory	3/30/23 16:17	3/30/23 16:18	No	No	Gayle McDermott	GT-2	Center Catwalk	<Null>
Pile Driving Vibratory	3/30/23 16:26	3/30/23 16:27	No	No	Gayle McDermott	GT-5	Center Catwalk	<Null>
Pile Driving Vibratory	3/30/23 16:26	3/30/23 16:26	No	No	Gayle McDermott	GT-5	Center Catwalk	<Null>
Pile Driving Vibratory	3/30/23 16:27	3/30/23 16:31	No	No	Gayle McDermott	GT-5	Center Catwalk	<Null>
Post Construction	3/30/23 16:31	3/30/23 17:01	No	No	Gayle McDermott	NA	Center Catwalk	Hammer broke. Down for the rest of the week.
Stand By	4/3/23 10:55	4/3/23 12:37	No	No	Derek Lerma	NA	Center Catwalk	On site
Pre Construction	4/3/23 12:37	4/3/23 13:40	No	No	Derek Lerma	NA	Center Catwalk	Barge set up at GT

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Soft Start Vibratory	4/3/23 13:44	4/3/23 13:44	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Soft Start Vibratory	4/3/23 13:44	4/3/23 13:44	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Soft Start Vibratory	4/3/23 13:45	4/3/23 13:45	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 13:45	4/3/23 13:46	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 13:46	4/3/23 13:48	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 13:48	4/3/23 13:49	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 13:50	4/3/23 13:50	No	No	Derek Lerma	GT-3	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 13:55	4/3/23 13:55	No	No	Derek Lerma	GT-5	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 13:58	4/3/23 13:59	No	No	Derek Lerma	GT-5	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:00	4/3/23 14:01	No	No	Derek Lerma	GT-5	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:01	4/3/23 14:04	No	No	Derek Lerma	GT-5	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:14	4/3/23 14:16	No	No	Derek Lerma	GT-8	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:16	4/3/23 14:17	No	No	Derek Lerma	GT-8	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:17	4/3/23 14:18	No	No	Derek Lerma	GT-8	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:19	4/3/23 14:21	No	No	Derek Lerma	GT-8	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:28	4/3/23 14:28	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:29	4/3/23 14:30	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:31	4/3/23 14:31	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:32	4/3/23 14:33	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:34	4/3/23 14:35	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:35	4/3/23 14:36	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:37	4/3/23 14:38	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:39	4/3/23 14:40	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:41	4/3/23 14:44	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:44	4/3/23 14:45	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:52	4/3/23 14:52	No	No	Derek Lerma	GT-1	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:53	4/3/23 14:54	No	No	Derek Lerma	GT-1	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:54	4/3/23 14:58	No	No	Derek Lerma	GT-1	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 14:59	4/3/23 14:59	No	No	Derek Lerma	GT-1	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 15:00	4/3/23 15:05	No	No	Derek Lerma	GT-1	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 15:05	4/3/23 15:07	No	No	Derek Lerma	GT-1	Center Catwalk	<Null>
Pile Driving Vibratory	4/3/23 15:12	4/3/23 15:12	No	No	Derek Lerma	GT-6	Center Catwalk	<Null>
Post Construction	4/3/23 15:17	4/3/23 15:49	No	No	Derek Lerma	NA	Center Catwalk	<Null>
Stand By	4/4/23 7:00	4/4/23 7:45	No	No	Chubak	NA	Center Catwalk	Morning standby
Pre Construction	4/4/23 7:45	4/4/23 8:15	No	No	Chubak	NA	Center Catwalk	<Null>
Soft Start Impact	4/4/23 8:15	4/4/23 8:15	No	No	Chubak	GT-6	Center Catwalk	3rd activity entry is 1st pile driving impact (manually re-entered as first impact activity, but kept here for specific timing)
Soft Start Impact	4/4/23 8:16	4/4/23 8:16	No	No	Chubak	GT-6	Center Catwalk	<Null>
Soft Start Impact	4/4/23 8:17	4/4/23 8:23	No	No	Chubak	GT-6	Center Catwalk	<Null>
Pile Driving Impact	4/4/23 8:17	4/4/23 8:23	No	No	Chubak	GT-6	Center Catwalk	Activity duration for first impact 339s (see 3rd activity in soft start for precise time)
Soft Start Impact	4/4/23 8:37	4/4/23 8:37	No	No	Chubak	GT-1	Center Catwalk	<Null>
Pile Driving Impact	4/4/23 8:38	4/4/23 8:44	No	No	Chubak	GT-1	Center Catwalk	<Null>
Stand By	4/4/23 8:45	4/4/23 11:06	No	No	Chubak	NA	Center Catwalk	Working on impact hammer.
Soft Start Impact	4/4/23 11:06	4/4/23 11:06	No	No	Chubak	GT-4	Center Catwalk	<Null>
Soft Start Impact	4/4/23 11:08	4/4/23 11:08	No	No	Chubak	GT-4	Center Catwalk	<Null>
Soft Start Impact	4/4/23 11:09	4/4/23 11:09	No	No	Chubak	GT-4	Center Catwalk	<Null>
Pile Driving Impact	4/4/23 11:10	4/4/23 11:16	No	No	Chubak	GT-4	Center Catwalk	<Null>
Pile Driving Impact	4/4/23 11:23	4/4/23 11:29	No	No	Chubak	GT-8	Center Catwalk	<Null>
Pile Driving Impact	4/4/23 11:36	4/4/23 11:45	No	No	Chubak	GT-7	Center Catwalk	<Null>
Pile Driving Impact	4/4/23 11:54	4/4/23 12:02	No	No	Chubak	GT-5	Center Catwalk	<Null>
Stand By	4/4/23 12:02	4/4/23 13:13	No	No	Chubak	NA	Center Catwalk	<Null>
Soft Start Impact	4/4/23 13:13	4/4/23 13:13	No	No	Chubak	GT-2	Center Catwalk	<Null>
Soft Start Impact	4/4/23 13:14	4/4/23 13:14	No	No	Chubak	GT-2	Center Catwalk	<Null>
Soft Start Impact	4/4/23 13:15	4/4/23 13:15	No	No	Chubak	GT-2	Center Catwalk	<Null>
Pile Driving Impact	4/4/23 13:15	4/4/23 13:23	No	No	Chubak	GT-2	Center Catwalk	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Stand By	4/4/23 13:23	4/4/23 17:04	No	No	Chubak	NA	South Dolphin	Switching from impact to vibratory hammer and repositioning barge to south dolphin falsework piles.
Soft Start Vibratory	4/4/23 17:04	4/4/23 17:04	No	No	Chubak	GT-3	South Dolphin	South dolphin falsework pile. 1st activity ~10s (start/stop time register error)
Soft Start Vibratory	4/4/23 17:05	4/4/23 17:05	No	No	Chubak	GT-3	South Dolphin	<Null>
Soft Start Vibratory	4/4/23 17:06	4/4/23 17:06	No	No	Chubak	GT-3	South Dolphin	<Null>
Pile Driving Vibratory	4/4/23 17:06	4/4/23 17:07	No	No	Chubak	GT-3	South Dolphin	South dolphin falsework pile. 1st activity of vibratory ~30s (capture stop did not register properly)
Pile Driving Vibratory	4/4/23 17:07	4/4/23 17:07	No	No	Chubak	GT-3	South Dolphin	<Null>
Pile Driving Vibratory	4/4/23 17:07	4/4/23 17:08	No	No	Chubak	GT-3	South Dolphin	<Null>
Pile Driving Vibratory	4/4/23 17:09	4/4/23 17:10	No	No	Chubak	GT-3	South Dolphin	<Null>
Pile Driving Vibratory	4/4/23 17:12	4/4/23 17:13	No	No	Chubak	GT-3	South Dolphin	<Null>
Pile Driving Vibratory	4/4/23 17:14	4/4/23 17:15	No	No	Chubak	GT-3	South Dolphin	<Null>
Pile Driving Vibratory	4/4/23 17:16	4/4/23 17:17	No	No	Chubak	GT-3	South Dolphin	<Null>
Pile Driving Vibratory	4/4/23 17:18	4/4/23 17:19	No	No	Chubak	GT-3	South Dolphin	<Null>
Pile Driving Vibratory	4/4/23 17:19	4/4/23 17:20	No	No	Chubak	GT-3	South Dolphin	<Null>
Pile Driving Vibratory	4/4/23 17:21	4/4/23 17:22	No	No	Chubak	GT-3	South Dolphin	<Null>
Post Construction	4/4/23 17:23	4/4/23 17:53	No	No	Chubak	NA	South Dolphin	<Null>
Stand By	4/5/23 6:55	4/5/23 6:55	No	No	Adam Sachs	NA	North Dolphin	On site. No monitoring.
Pre Construction	4/5/23 7:06	4/5/23 7:36	No	No	Adam Sachs	NA	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 8:53	4/5/23 8:53	No	No	Adam Sachs	ND-FP1	North Dolphin	Falsework pile number one for today.
Soft Start Vibratory	4/5/23 8:55	4/5/23 8:55	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 8:57	4/5/23 8:57	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 9:00	4/5/23 9:00	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 9:02	4/5/23 9:02	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 9:04	4/5/23 9:05	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 9:05	4/5/23 9:06	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 9:08	4/5/23 9:09	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 9:11	4/5/23 9:12	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 9:15	4/5/23 9:17	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Stand By	4/5/23 9:23	4/5/23 10:05	No	No	Adam Sachs	NA	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 10:06	4/5/23 10:06	No	No	Adam Sachs	ND-FP2	North Dolphin	Falsework pile number two for today.
Soft Start Vibratory	4/5/23 10:07	4/5/23 10:07	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 10:09	4/5/23 10:09	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 10:09	4/5/23 10:10	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 10:12	4/5/23 10:12	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 10:14	4/5/23 10:14	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 10:15	4/5/23 10:16	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Stand By	4/5/23 10:16	4/5/23 10:21	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 10:21	4/5/23 10:28	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Post Construction	4/5/23 10:29	4/5/23 11:00	No	No	Adam Sachs	NA	North Dolphin	<Null>
Stand By	4/5/23 11:00	4/5/23 12:45	No	No	Adam Sachs	NA	North Dolphin	<Null>
Pre Construction	4/5/23 12:50	4/5/23 13:17	No	No	Adam Sachs	NA	North Dolphin	<Null>
Stand By	4/5/23 13:18	4/5/23 13:50	No	No	Adam Sachs	NA	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 13:53	4/5/23 13:54	No	No	Adam Sachs	ND-FP1	North Dolphin	First falsework pile at the north dolphin.
Soft Start Vibratory	4/5/23 13:54	4/5/23 13:54	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 13:55	4/5/23 13:56	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 13:56	4/5/23 13:56	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 14:00	4/5/23 14:01	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 14:01	4/5/23 14:02	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 14:02	4/5/23 14:03	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 14:03	4/5/23 14:03	No	No	Adam Sachs	ND-FP1	North Dolphin	<Null>
Stand By	4/5/23 14:21	4/5/23 15:23	No	No	Adam Sachs	NA	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 15:23	4/5/23 15:23	No	No	Adam Sachs	ND-FP2	North Dolphin	Second pile near the north dolphin.
Soft Start Vibratory	4/5/23 15:24	4/5/23 15:24	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 15:25	4/5/23 15:25	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:26	4/5/23 15:27	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:29	4/5/23 15:30	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Soft Start Vibratory	4/5/23 15:41	4/5/23 15:41	No	No	Adam Sachs	ND-FP2	North Dolphin	Second attempt on the second pile of the day near the north dolphin.
Soft Start Vibratory	4/5/23 15:42	4/5/23 15:42	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 15:43	4/5/23 15:43	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:44	4/5/23 15:45	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:46	4/5/23 15:47	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:48	4/5/23 15:49	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:49	4/5/23 15:51	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:52	4/5/23 15:53	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:53	4/5/23 15:54	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:55	4/5/23 15:56	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:56	4/5/23 15:57	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 15:59	4/5/23 15:59	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 16:00	4/5/23 16:01	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 16:01	4/5/23 16:03	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 16:04	4/5/23 16:05	No	No	Adam Sachs	ND-FP2	North Dolphin	<Null>
Stand By	4/5/23 16:07	4/5/23 17:05	Yes	No	Adam Sachs	NA	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 17:07	4/5/23 17:08	No	No	Adam Sachs	ND-FP3	North Dolphin	Third falsework pile by the north dolphin.
Soft Start Vibratory	4/5/23 17:07	4/5/23 17:07	No	No	Adam Sachs	<Null>	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 17:08	4/5/23 17:08	No	No	Adam Sachs	ND-FP3	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 17:15	4/5/23 17:17	No	No	Adam Sachs	ND-FP3	North Dolphin	<Null>
Soft Start Vibratory	4/5/23 17:20	4/5/23 17:19	No	No	Adam Sachs	ND-FP3	North Dolphin	<Null>
Pile Driving Vibratory	4/5/23 17:20	4/5/23 17:21	No	No	Adam Sachs	NA	North Dolphin	Probing for production piles
Pile Driving Vibratory	4/5/23 17:29	4/5/23 17:31	No	No	Adam Sachs	NA	North Dolphin	Probing for production piles.
Post Construction	4/5/23 17:31	4/5/23 18:01	No	No	Adam Sachs	NA	North Dolphin	End of day.
Pre Construction	4/13/23 8:00	4/13/23 8:30	No	No	Adam Sachs	NA	South Dolphin	<Null>
Stand By	4/13/23 8:30	4/13/23 12:40	No	No	Adam Sachs	NA	South Dolphin	<Null>
Pre Construction	4/13/23 12:40	4/13/23 13:25	No	No	Adam Sachs	NA	South Dolphin	<Null>
Stand By	4/13/23 13:25	4/13/23 13:47	No	No	Adam Sachs	NA	South Dolphin	<Null>
Soft Start Vibratory	4/13/23 13:47	4/13/23 13:48	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Soft Start Vibratory	4/13/23 13:49	4/13/23 13:50	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 13:50	4/13/23 13:51	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Soft Start Vibratory	4/13/23 13:50	4/13/23 13:50	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 13:51	4/13/23 13:52	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 13:53	4/13/23 13:54	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 13:55	4/13/23 13:56	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 13:57	4/13/23 14:00	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 14:01	4/13/23 14:06	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 14:17	4/13/23 14:18	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 14:21	4/13/23 14:22	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 14:23	4/13/23 14:24	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 14:26	4/13/23 14:27	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 14:31	4/13/23 14:32	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 14:34	4/13/23 14:35	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 14:37	4/13/23 14:38	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 14:42	4/13/23 14:44	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Vibratory	4/13/23 14:45	4/13/23 15:07	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Soft Start Impact	4/13/23 16:21	4/13/23 16:21	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Soft Start Impact	4/13/23 16:22	4/13/23 16:22	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Pile Driving Impact	4/13/23 16:23	4/13/23 16:27	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Soft Start Impact	4/13/23 16:23	4/13/23 16:23	No	No	Adam Sachs	SD-5	South Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Impact	4/13/23 16:42	4/13/23 16:44	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Pile Driving Impact	4/13/23 16:45	4/13/23 17:03	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Post Construction	4/13/23 17:05	4/13/23 18:05	No	No	Adam Sachs	NA	South Dolphin	<Null>
Soft Start Impact	4/14/23 7:56	4/14/23 7:56	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Soft Start Impact	4/14/23 7:57	4/14/23 7:57	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Impact	4/14/23 7:58	4/14/23 8:21	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Impact	4/14/23 8:26	4/14/23 8:32	No	No	Adam Sachs	SD-20	South Dolphin	<Null>
Pile Driving Impact	4/14/23 9:08	4/14/23 9:09	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Stand By	4/14/23 9:16	4/14/23 9:59	No	No	Adam Sachs	NA	South Dolphin	<Null>
Soft Start Vibratory	4/14/23 10:03	4/14/23 10:04	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Soft Start Vibratory	4/14/23 10:05	4/14/23 10:05	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:06	4/14/23 10:06	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:07	4/14/23 10:08	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:09	4/14/23 10:09	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:14	4/14/23 10:15	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Stand By	4/14/23 10:15	4/14/23 10:16	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:16	4/14/23 10:20	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:21	4/14/23 10:25	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:25	4/14/23 10:26	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:27	4/14/23 10:29	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Stand By	4/14/23 10:29	4/14/23 10:30	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:30	4/14/23 10:33	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Soft Start Vibratory	4/14/23 10:45	4/14/23 10:45	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:48	4/14/23 10:50	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:52	4/14/23 10:53	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 10:58	4/14/23 10:59	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 11:00	4/14/23 11:00	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 11:01	4/14/23 11:01	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 11:02	4/14/23 11:03	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 11:04	4/14/23 11:05	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 11:06	4/14/23 11:08	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 11:09	4/14/23 11:11	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Vibratory	4/14/23 11:12	4/14/23 11:17	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Post Construction	4/14/23 11:18	4/14/23 11:48	No	No	Adam Sachs	NA	South Dolphin	<Null>
Pre Construction	4/14/23 12:16	4/14/23 12:45	No	No	Adam Sachs	NA	South Dolphin	<Null>
Soft Start Impact	4/14/23 12:46	4/14/23 12:46	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Soft Start Impact	4/14/23 12:47	4/14/23 12:48	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Soft Start Impact	4/14/23 12:47	4/14/23 12:47	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Pile Driving Impact	4/14/23 12:48	4/14/23 13:12	No	No	Adam Sachs	SD-16	South Dolphin	<Null>
Soft Start Impact	4/14/23 13:18	4/14/23 13:18	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Soft Start Impact	4/14/23 13:18	4/14/23 13:18	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Pile Driving Impact	4/14/23 13:19	4/14/23 13:38	No	No	Adam Sachs	SD-1	South Dolphin	<Null>
Post Construction	4/14/23 13:44	4/14/23 14:14	No	No	Adam Sachs	NA	South Dolphin	<Null>
Pile Driving Impact	4/14/23 15:07	4/14/23 15:07	No	No	Adam Sachs	SD-5	South Dolphin	<Null>
Stand By	4/14/23 23:48	4/14/23 12:16	No	No	Adam Sachs	NA	South Dolphin	<Null>
Stand By	4/18/23 6:00	4/18/23 6:45	No	No	Chubak (Rincon)	NA	South Dolphin	Arrived on site, morning standby
Pre Construction	4/18/23 6:45	4/18/23 8:10	No	No	Chubak (Rincon)	NA	South Dolphin	<Null>
Pre Construction	4/18/23 7:03	4/18/23 7:35	No	No	Adam Sachs	NA	South Dolphin	<Null>
Soft Start Vibratory	4/18/23 8:10	4/18/23 8:10	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>
Soft Start Vibratory	4/18/23 8:11	4/18/23 8:11	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Soft Start Vibratory	4/18/23 8:11	4/18/23 8:11	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 8:17	4/18/23 8:17	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 8:19	4/18/23 8:20	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 8:24	4/18/23 8:26	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 8:27	4/18/23 8:29	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 8:30	4/18/23 8:34	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 8:36	4/18/23 8:38	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 8:41	4/18/23 8:42	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 8:44	4/18/23 8:46	No	No	Chubak (Rincon)	SD-17	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 8:54	4/18/23 8:55	No	No	Chubak (Rincon)	SD-18	South Dolphin	Vibratory hammer issue during first activity need to reset. Hammer lost grip during 1st and 2nd vibe. Need to check grips. Going into standby.
Stand By	4/18/23 9:01	4/18/23 9:32	No	No	Chubak (Rincon)	<Null>	South Dolphin	Standby to check on hammer.
Pile Driving Vibratory	4/18/23 9:01	4/18/23 9:01	No	No	Chubak (Rincon)	SD-18	South Dolphin	Vibratory hammer issue during first activity need to reset. Hammer lost grip during 1st and 2nd vibe. Need to check grips. Going into standby.
Soft Start Vibratory	4/18/23 9:32	4/18/23 9:32	No	No	Chubak (Rincon)	SD-18	South Dolphin	<Null>
Soft Start Vibratory	4/18/23 9:33	4/18/23 9:34	No	No	Chubak (Rincon)	SD-18	South Dolphin	<Null>
Soft Start Vibratory	4/18/23 9:35	4/18/23 9:36	No	No	Chubak (Rincon)	SD-18	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 9:37	4/18/23 9:38	No	No	Chubak (Rincon)	SD-18	South Dolphin	Resumed vibing.
Pile Driving Vibratory	4/18/23 9:39	4/18/23 9:42	No	No	Chubak (Rincon)	SD-18	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 9:44	4/18/23 9:57	No	No	Chubak (Rincon)	SD-18	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 9:58	4/18/23 10:05	No	No	Chubak (Rincon)	SD-18	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:17	4/18/23 10:17	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:19	4/18/23 10:20	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:21	4/18/23 10:22	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:23	4/18/23 10:24	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:25	4/18/23 10:26	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:28	4/18/23 10:28	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:29	4/18/23 10:31	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:32	4/18/23 10:41	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:43	4/18/23 10:46	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:48	4/18/23 10:52	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:54	4/18/23 10:55	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 10:57	4/18/23 11:05	No	No	Chubak (Rincon)	SD-19	South Dolphin	<Null>
Soft Start Vibratory	4/18/23 11:18	4/18/23 11:18	No	No	Chubak (Rincon)	SD-14	South Dolphin	2nd and 3rd activity testing grip on pile.
Soft Start Vibratory	4/18/23 11:22	4/18/23 11:23	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Soft Start Vibratory	4/18/23 11:22	4/18/23 11:22	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Soft Start Vibratory	4/18/23 11:24	4/18/23 11:25	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Soft Start Vibratory	4/18/23 11:26	4/18/23 11:26	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 11:27	4/18/23 11:27	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 11:28	4/18/23 11:29	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 11:30	4/18/23 11:30	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 11:32	4/18/23 11:34	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 11:35	4/18/23 11:37	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 11:38	4/18/23 11:40	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 11:41	4/18/23 11:46	No	No	Chubak (Rincon)	SD-14	South Dolphin	<Null>
Stand By	4/18/23 11:47	4/18/23 13:15	No	No	Chubak (Rincon)	NA	South Dolphin	Lunch
Stand By	4/18/23 13:16	4/18/23 3:26	No	No	Chubak (Rincon)	NA	South Dolphin	Stabbing piles: SD-15, SD-13, SD-12, and SD-11.
Soft Start Vibratory	4/18/23 15:27	4/18/23 15:28	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Soft Start Vibratory	4/18/23 15:27	4/18/23 15:27	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Soft Start Vibratory	4/18/23 15:28	4/18/23 15:29	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 15:29	4/18/23 15:29	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 15:30	4/18/23 15:30	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 15:31	4/18/23 15:31	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 15:32	4/18/23 15:33	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 15:34	4/18/23 15:34	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 15:37	4/18/23 15:37	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 15:39	4/18/23 15:40	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 15:41	4/18/23 15:43	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 15:43	4/18/23 16:17	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Pile Driving Vibratory	4/18/23 16:19	4/18/23 16:27	No	No	Chubak (Rincon)	SD-11	South Dolphin	<Null>
Post Construction	4/18/23 16:27	4/18/23 16:57	No	No	Chubak (Rincon)	NA	South Dolphin	<Null>
Pre Construction	4/19/23 7:10	4/19/23 7:40	No	No	Adam Sachs	NA	South Dolphin	<Null>
Stand By	4/19/23 7:44	4/19/23 8:42	No	No	Adam Sachs	NA	South Dolphin	<Null>
Soft Start Vibratory	4/19/23 8:53	4/19/23 8:53	No	No	Adam Sachs	SD-6	South Dolphin	<Null>
Soft Start Vibratory	4/19/23 8:54	4/19/23 8:54	No	No	Adam Sachs	SD-6	South Dolphin	<Null>
Soft Start Vibratory	4/19/23 8:55	4/19/23 8:55	No	No	Adam Sachs	SD-6	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 8:58	4/19/23 8:59	No	No	Adam Sachs	SD-6	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 9:01	4/19/23 9:01	No	No	Adam Sachs	SD-6	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 9:02	4/19/23 9:03	No	No	Adam Sachs	SD-6	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 9:07	4/19/23 9:09	No	No	Adam Sachs	SD-6	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 9:10	4/19/23 9:25	No	No	Adam Sachs	SD-6	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 9:26	4/19/23 9:40	No	No	Adam Sachs	SD-6	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 9:41	4/19/23 9:55	No	No	Adam Sachs	SD-6	South Dolphin	<Null>
Soft Start Vibratory	4/19/23 10:04	4/19/23 10:05	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Soft Start Vibratory	4/19/23 10:06	4/19/23 10:07	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Soft Start Vibratory	4/19/23 10:06	4/19/23 10:05	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:09	4/19/23 10:10	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:11	4/19/23 10:12	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:13	4/19/23 10:13	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:15	4/19/23 10:16	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:18	4/19/23 10:18	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:20	4/19/23 10:21	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:27	4/19/23 10:27	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:30	4/19/23 10:32	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:34	4/19/23 10:40	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:41	4/19/23 10:43	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:44	4/19/23 10:45	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:47	4/19/23 10:52	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 10:54	4/19/23 10:56	No	No	Adam Sachs	SD-12	South Dolphin	<Null>
Soft Start Vibratory	4/19/23 11:14	4/19/23 11:14	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Soft Start Vibratory	4/19/23 11:18	4/19/23 11:18	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Soft Start Vibratory	4/19/23 11:21	4/19/23 11:21	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 11:23	4/19/23 11:23	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 11:24	4/19/23 11:25	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 11:27	4/19/23 11:28	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 11:30	4/19/23 11:44	No	No	Adam Sachs	SD-13	South Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	4/19/23 11:47	4/19/23 11:48	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 11:50	4/19/23 11:50	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 11:51	4/19/23 11:51	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Pile Driving Vibratory	4/19/23 11:55	4/19/23 12:07	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Stand By	4/19/23 12:05	4/19/23 13:46	No	No	Adam Sachs	NA	South Dolphin	Lunch break.
Soft Start Impact	4/19/23 14:23	4/19/23 14:23	Yes	No	Adam Sachs	SD-19	South Dolphin	<Null>
Soft Start Impact	4/19/23 14:24	4/19/23 14:24	Yes	No	Adam Sachs	SD-19	South Dolphin	<Null>
Pile Driving Impact	4/19/23 14:26	4/19/23 15:00	No	No	Adam Sachs	SD-19	South Dolphin	<Null>
Soft Start Impact	4/19/23 14:26	4/19/23 14:26	Yes	No	Adam Sachs	SD-19	South Dolphin	<Null>
Soft Start Impact	4/19/23 15:05	4/19/23 15:05	No	No	Adam Sachs	SD-18	South Dolphin	<Null>
Pile Driving Impact	4/19/23 15:06	4/19/23 15:43	No	No	Adam Sachs	SD-18	South Dolphin	<Null>
Soft Start Impact	4/19/23 15:06	4/19/23 15:06	No	No	Adam Sachs	SD-18	South Dolphin	<Null>
Soft Start Impact	4/19/23 15:50	4/19/23 15:50	No	No	Adam Sachs	SD-17	South Dolphin	<Null>
Soft Start Impact	4/19/23 15:51	4/19/23 15:51	No	No	Adam Sachs	SD-17	South Dolphin	<Null>
Pile Driving Impact	4/19/23 15:52	4/19/23 16:25	No	No	Adam Sachs	SD-17	South Dolphin	<Null>
Soft Start Impact	4/19/23 15:52	4/19/23 15:52	No	No	Adam Sachs	SD-17	South Dolphin	<Null>
Post Construction	4/19/23 16:26	4/19/23 16:57	No	No	Adam Sachs	NA	South Dolphin	<Null>
Stand By	4/20/23 7:45	4/20/23 9:12	No	No	Adam Sachs	NA	South Dolphin	<Null>
Pre Construction	4/20/23 9:12	4/20/23 9:41	No	No	Adam Sachs	NA	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 9:41	4/20/23 9:41	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 9:42	4/20/23 9:43	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 10:04	4/20/23 10:04	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 10:04	4/20/23 10:04	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 10:05	4/20/23 10:05	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 10:08	4/20/23 10:08	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 10:11	4/20/23 10:11	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 10:12	4/20/23 10:12	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 10:14	4/20/23 10:14	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 10:15	4/20/23 10:15	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 10:16	4/20/23 22:16	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 10:18	4/20/23 10:18	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 10:19	4/20/23 10:19	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 10:21	4/20/23 10:21	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 10:23	4/20/23 10:24	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 10:26	4/20/23 10:26	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Stand By	4/20/23 10:30	4/20/23 10:43	No	No	Adam Sachs	NA	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 10:44	4/20/23 10:45	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 10:44	4/20/23 10:44	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 10:46	4/20/23 10:46	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 10:49	4/20/23 10:51	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 10:52	4/20/23 11:33	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 11:35	4/20/23 11:43	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 11:35	4/20/23 11:35	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 11:43	4/20/23 11:46	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 11:48	4/20/23 11:51	No	No	Adam Sachs	SD-7	South Dolphin	<Null>
Stand By	4/20/23 11:57	4/20/23 13:00	No	No	Adam Sachs	NA	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 13:10	4/20/23 13:10	No	No	Adam Sachs	SD-8	South Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Soft Start Vibratory	4/20/23 13:10	4/20/23 13:10	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 13:14	4/20/23 13:14	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 13:16	4/20/23 13:17	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 13:20	4/20/23 13:20	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 13:29	4/20/23 13:29	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 13:31	4/20/23 13:31	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 13:34	4/20/23 13:34	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 13:37	4/20/23 13:37	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 13:39	4/20/23 13:39	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 13:41	4/20/23 13:44	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 13:45	4/20/23 14:07	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 14:08	4/20/23 14:47	No	No	Adam Sachs	SD-8	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 15:07	4/20/23 15:07	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 15:07	4/20/23 15:07	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 15:08	4/20/23 15:08	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 15:10	4/20/23 15:12	No	No	Adam Sachs	SD-13	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 15:23	4/20/23 15:23	No	No	Adam Sachs	SD-9	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 15:25	4/20/23 15:25	No	No	Adam Sachs	SD-9	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 15:26	4/20/23 15:26	No	No	Adam Sachs	SD-9	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 15:27	4/20/23 15:28	No	No	Adam Sachs	SD-9	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 15:30	4/20/23 15:30	No	No	Adam Sachs	SD-9	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 15:32	4/20/23 15:33	No	No	Adam Sachs	SD-9	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 15:33	4/20/23 15:33	No	No	Adam Sachs	SD-9	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 15:34	4/20/23 15:35	No	No	Adam Sachs	SD-9	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 15:44	4/20/23 15:51	No	No	Adam Sachs	SD-9	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 16:00	4/20/23 16:00	No	No	Adam Sachs	SD-10	South Dolphin	<Null>
Soft Start Vibratory	4/20/23 16:08	4/20/23 16:09	No	No	Adam Sachs	SD-10	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 16:09	4/20/23 16:10	No	No	Adam Sachs	SD-10	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 16:11	4/20/23 16:11	No	No	Adam Sachs	SD-10	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 16:12	4/20/23 16:12	No	No	Adam Sachs	SD-10	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 16:13	4/20/23 16:14	No	No	Adam Sachs	SD-10	South Dolphin	<Null>
Pile Driving Vibratory	4/20/23 16:16	4/20/23 16:28	No	No	Adam Sachs	SD-10	South Dolphin	<Null>
Post Construction	4/20/23 16:32	4/20/23 17:02	No	No	Adam Sachs	NA	South Dolphin	<Null>
Stand By	4/21/23 8:00	4/21/23 8:00	No	No	Adam Sachs	NA	South Dolphin	<Null>
Pre Construction	4/21/23 8:08	4/21/23 8:38	No	No	Adam Sachs	NA	South Dolphin	<Null>
Soft Start Vibratory	4/21/23 8:41	4/21/23 8:41	No	No	Adam Sachs	SD-4	South Dolphin	<Null>
Soft Start Vibratory	4/21/23 8:45	4/21/23 8:45	No	No	Adam Sachs	SD-4	South Dolphin	<Null>
Soft Start Vibratory	4/21/23 8:47	4/21/23 8:47	No	No	Adam Sachs	SD-4	South Dolphin	<Null>
Pile Driving Vibratory	4/21/23 8:49	4/21/23 8:49	No	No	Adam Sachs	SD-4	South Dolphin	<Null>
Pile Driving Vibratory	4/21/23 8:51	4/21/23 8:52	No	No	Adam Sachs	SD-4	South Dolphin	<Null>
Pile Driving Vibratory	4/21/23 8:54	4/21/23 8:55	No	No	Adam Sachs	SD-4	South Dolphin	<Null>
Post Construction	4/21/23 9:19	4/21/23 9:49	No	No	Adam Sachs	NA	South Dolphin	<Null>
Stand By	4/25/23 7:19	4/25/23 7:39	No	No	Derek Lerma	NA	South Dolphin	<Null>
Pre Construction	4/25/23 7:40	4/25/23 8:28	No	No	Derek Lerma	NA	South Dolphin	<Null>
Soft Start Vibratory	4/25/23 8:34	4/25/23 8:34	No	No	Derek Lerma	SD-4	South Dolphin	<Null>
Soft Start Vibratory	4/25/23 8:34	4/25/23 8:34	No	No	Derek Lerma	SD-4	South Dolphin	<Null>
Soft Start Vibratory	4/25/23 8:34	4/25/23 8:34	No	No	Derek Lerma	SD-4	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 8:35	4/25/23 8:39	No	No	Derek Lerma	SD-4	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 9:09	4/25/23 9:09	No	No	Derek Lerma	SD-3	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 9:10	4/25/23 9:11	No	No	Derek Lerma	SD-3	South Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	4/25/23 9:12	4/25/23 9:13	No	No	Derek Lerma	SD-3	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 9:15	4/25/23 9:16	No	No	Derek Lerma	SD-3	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 9:17	4/25/23 9:17	No	No	Derek Lerma	SD-3	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 9:18	4/25/23 9:32	No	No	Derek Lerma	SD-3	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 9:42	4/25/23 9:42	No	No	Derek Lerma	SD-2	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 9:44	4/25/23 9:44	No	No	Derek Lerma	SD-2	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 9:45	4/25/23 9:46	No	No	Derek Lerma	SD-2	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 9:46	4/25/23 9:47	No	No	Derek Lerma	SD-2	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 9:48	4/25/23 9:53	No	No	Derek Lerma	SD-2	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 10:05	4/25/23 10:05	No	No	Derek Lerma	SD-15	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 10:07	4/25/23 10:07	No	No	Derek Lerma	SD-15	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 10:09	4/25/23 10:09	No	No	Derek Lerma	SD-15	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 10:10	4/25/23 10:10	No	No	Derek Lerma	SD-15	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 10:12	4/25/23 10:12	No	No	Derek Lerma	SD-15	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 10:14	4/25/23 10:15	No	No	Derek Lerma	SD-15	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 10:16	4/25/23 10:17	No	No	Derek Lerma	SD-15	South Dolphin	<Null>
Pile Driving Vibratory	4/25/23 10:20	4/25/23 10:30	No	No	Derek Lerma	SD-15	South Dolphin	<Null>
Post Construction	4/25/23 10:32	4/25/23 11:44	No	No	Derek Lerma	NA	South Dolphin	<Null>
Pre Construction	4/25/23 12:19	4/25/23 12:49	No	No	Derek Lerma	NA	South Dolphin	<Null>
Soft Start Impact	4/25/23 12:49	4/25/23 12:49	No	No	Derek Lerma	SD-10	South Dolphin	<Null>
Soft Start Impact	4/25/23 12:50	4/25/23 12:50	No	No	Derek Lerma	SD-10	South Dolphin	<Null>
Soft Start Impact	4/25/23 12:51	4/25/23 12:51	No	No	Derek Lerma	SD-10	South Dolphin	<Null>
Pile Driving Impact	4/25/23 12:52	4/25/23 13:30	No	No	Derek Lerma	SD-10	South Dolphin	<Null>
Pile Driving Impact	4/25/23 13:36	4/25/23 14:12	No	No	Derek Lerma	SD-15	South Dolphin	<Null>
Pile Driving Impact	4/25/23 14:22	4/25/23 14:24	No	No	Derek Lerma	SD-13	South Dolphin	<Null>
Pile Driving Impact	4/25/23 14:37	4/25/23 15:12	No	No	Derek Lerma	SD-13	South Dolphin	<Null>
Pile Driving Impact	4/25/23 15:17	4/25/23 15:19	No	No	Derek Lerma	SD-12	South Dolphin	<Null>
Pile Driving Impact	4/25/23 15:37	4/25/23 15:41	No	No	Derek Lerma	SD-11	South Dolphin	<Null>
Pile Driving Impact	4/25/23 15:52	4/25/23 15:54	No	No	Derek Lerma	SD-6	South Dolphin	<Null>
Pile Driving Impact	4/25/23 16:03	4/25/23 16:05	No	No	Derek Lerma	SD-1	South Dolphin	<Null>
Pile Driving Impact	4/25/23 16:13	4/25/23 16:15	No	No	Derek Lerma	SD-8	South Dolphin	<Null>
Pile Driving Impact	4/25/23 16:19	4/25/23 16:22	No	No	Derek Lerma	SD-9	South Dolphin	<Null>
Pile Driving Impact	4/25/23 16:26	4/25/23 17:02	No	No	Derek Lerma	SD-4	South Dolphin	<Null>
Pile Driving Impact	4/25/23 17:09	4/25/23 17:42	No	No	Derek Lerma	SD-3	South Dolphin	<Null>
Post Construction	4/25/23 17:43	4/25/23 18:14	No	No	Derek Lerma	NA	South Dolphin	<Null>
Stand By	4/27/23 6:30	4/27/23 7:00	No	No	Chubak (Rincon)	NA	South Dolphin	Tailboard meeting
Pre Construction	4/27/23 7:00	4/27/23 8:17	No	No	Chubak (Rincon)	NA	South Dolphin	<Null>
Soft Start Impact	4/27/23 8:17	4/27/23 8:17	No	No	Chubak (Rincon)	SD-3	South Dolphin	Dead blow
Pile Driving Impact	4/27/23 8:18	4/27/23 8:54	No	No	Chubak (Rincon)	SD-3	South Dolphin	Exact time 2160s, start stop capture error.
Post Construction	4/27/23 8:54	4/27/23 9:24	No	No	Chubak (Rincon)	NA	South Dolphin	Post con after impact driving
Stand By	4/27/23 9:24	4/27/23 1:43	No	No	Chubak (Rincon)	NA	North Dolphin	Crew moving some materials around barge. Relocating barge to north dolphin falsework location. Lunch break (1230).
Pre Construction	4/27/23 13:43	4/27/23 14:17	No	No	Chubak (Rincon)	NA	North Dolphin	North dolphin precon
Soft Start Vibratory	4/27/23 14:17	4/27/23 14:17	No	No	Chubak (Rincon)	ND-FP4	North Dolphin	North dolphin falsework. First falsework pile. One soft start, then some relocation, then three more soft starts.
Soft Start Vibratory	4/27/23 14:51	4/27/23 14:51	No	No	Chubak (Rincon)	ND-FP4	North Dolphin	<Null>
Soft Start Vibratory	4/27/23 14:54	4/27/23 14:54	No	No	Chubak (Rincon)	ND-FP4	North Dolphin	<Null>
Soft Start Vibratory	4/27/23 14:56	4/27/23 14:56	No	No	Chubak (Rincon)	ND-FP4	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 14:58	4/27/23 14:58	No	No	Chubak (Rincon)	ND-FP4	North Dolphin	North dolphin falsework. First falsework pile.

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	4/27/23 15:00	4/27/23 15:00	No	No	Chubak (Rincon)	ND-FP4	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 15:01	4/27/23 15:02	No	No	Chubak (Rincon)	ND-FP4	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 15:02	4/27/23 15:03	No	No	Chubak (Rincon)	ND-FP4	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 15:07	4/27/23 15:08	No	No	Chubak (Rincon)	ND-FP4	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 15:12	4/27/23 15:12	No	No	Chubak (Rincon)	ND-FP4	North Dolphin	<Null>
Soft Start Vibratory	4/27/23 15:43	4/27/23 15:43	No	No	Chubak (Rincon)	ND-FP5	North Dolphin	North dolphin falsework. 2nd falsework pile.
Soft Start Vibratory	4/27/23 15:54	4/27/23 15:55	No	No	Chubak (Rincon)	ND-FP5	North Dolphin	<Null>
Soft Start Vibratory	4/27/23 15:55	4/27/23 15:55	No	No	Chubak (Rincon)	ND-FP5	North Dolphin	<Null>
Soft Start Vibratory	4/27/23 15:55	4/27/23 15:55	No	No	Chubak (Rincon)	ND-FP5	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 16:03	4/27/23 16:03	No	No	Chubak (Rincon)	ND-FP5	North Dolphin	North dolphin falsework. 2nd falsework pile. First activity 5 second vibrate, then adjust pile placement.
Pile Driving Vibratory	4/27/23 16:25	4/27/23 16:26	No	No	Chubak (Rincon)	ND-FP5	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 16:26	4/27/23 16:27	No	No	Chubak (Rincon)	ND-FP5	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 16:27	4/27/23 16:28	No	No	Chubak (Rincon)	ND-FP5	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 16:30	4/27/23 16:31	No	No	Chubak (Rincon)	ND-FP5	North Dolphin	North dolphin falsework. 2nd falsework pile. First activity 5 second vibrate, then adjust pile placement.
Pile Driving Vibratory	4/27/23 16:31	4/27/23 16:31	No	No	Chubak (Rincon)	ND-FP5	North Dolphin	<Null>
Soft Start Vibratory	4/27/23 17:23	4/27/23 17:23	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	North dolphin falsework. 3rd falsework pile.
Soft Start Vibratory	4/27/23 17:23	4/27/23 17:23	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Soft Start Vibratory	4/27/23 17:24	4/27/23 17:24	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 17:26	4/27/23 17:26	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 17:27	4/27/23 17:28	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/27/23 17:29	4/27/23 17:30	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Post Construction	4/27/23 17:30	4/27/23 18:00	No	No	Chubak (Rincon)	NA	North Dolphin	<Null>
Stand By	4/28/23 6:30	4/28/23 7:30	No	No	Chubak (Rincon)	NA	North Dolphin	Tailboard meeting / PSOs mob to stations
Pre Construction	4/28/23 7:30	4/28/23 8:00	No	No	Chubak (Rincon)	NA	North Dolphin	<Null>
Soft Start Vibratory	4/28/23 8:00	4/28/23 8:01	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	ND falsework (6th pile SE corner)
Soft Start Vibratory	4/28/23 8:00	4/28/23 8:00	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Soft Start Vibratory	4/28/23 8:00	4/28/23 8:00	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 8:01	4/28/23 8:03	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Soft Start Vibratory	4/28/23 8:41	4/28/23 8:42	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	ND falsework (6th pile SE corner). Needed to readjust placement
Soft Start Vibratory	4/28/23 8:41	4/28/23 8:41	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Soft Start Vibratory	4/28/23 8:42	4/28/23 8:42	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 8:45	4/28/23 8:46	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 8:47	4/28/23 8:48	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 8:51	4/28/23 8:51	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 8:52	4/28/23 8:55	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 8:58	4/28/23 8:59	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 8:59	4/28/23 9:00	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 9:01	4/28/23 9:02	No	No	Chubak (Rincon)	ND-FP6	North Dolphin	<Null>
Soft Start Vibratory	4/28/23 10:09	4/28/23 10:09	No	No	Chubak (Rincon)	ND-FP7	North Dolphin	ND falsework piles (7th pile)
Soft Start Vibratory	4/28/23 10:19	4/28/23 10:19	No	No	Chubak (Rincon)	ND-FP7	North Dolphin	<Null>
Soft Start Vibratory	4/28/23 10:21	4/28/23 10:21	No	No	Chubak (Rincon)	ND-FP7	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 10:24	4/28/23 10:25	No	No	Chubak (Rincon)	ND-FP7	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 10:25	4/28/23 10:26	No	No	Chubak (Rincon)	ND-FP7	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 10:28	4/28/23 10:28	No	No	Chubak (Rincon)	ND-FP7	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 10:38	4/28/23 10:39	No	No	Chubak (Rincon)	ND-FP7	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 10:40	4/28/23 10:40	No	No	Chubak (Rincon)	ND-FP7	North Dolphin	<Null>
Pile Driving Vibratory	4/28/23 10:42	4/28/23 10:43	No	No	Chubak (Rincon)	ND-FP7	North Dolphin	<Null>
Post Construction	4/28/23 10:47	4/28/23 11:17	No	No	Chubak (Rincon)	<Null>	North Dolphin	<Null>
Stand By	5/3/23 9:00	5/3/23 12:45	No	No	Adam Sachs	NA	North Dolphin	Extended standby prior to pile driving work.

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pre Construction	5/3/23 9:45	5/3/23 10:15	No	No	Adam Sachs	NA	North Dolphin	<Null>
Stand By	5/3/23 10:18	5/3/23 12:01	No	No	Adam Sachs	NA	North Dolphin	<Null>
Pre Construction	5/3/23 12:01	5/3/23 12:31	No	No	Adam Sachs	NA	North Dolphin	<Null>
Stand By	5/3/23 12:40	5/3/23 13:11	No	No	Adam Sachs	NA	North Dolphin	<Null>
Pre Construction	5/3/23 12:45	5/3/23 13:15	No	No	Adam Sachs	NA	North Dolphin	<Null>
Stand By	5/3/23 13:19	5/2/23 16:45	No	No	Adam Sachs	NA	North Dolphin	PSOs in standby most of the day. No pile driving work was initiated.
Stand By	5/3/23 13:44	5/3/23 14:07	No	No	Adam Sachs	ND-20	North Dolphin	<Null>
Soft Start Impact	5/3/23 14:09	5/3/23 14:09	No	No	Adam Sachs	ND-20	North Dolphin	<Null>
Soft Start Impact	5/3/23 14:11	5/3/23 14:11	No	No	Adam Sachs	ND-20	North Dolphin	<Null>
Soft Start Impact	5/3/23 14:12	5/3/23 14:12	No	No	Adam Sachs	ND-20	North Dolphin	<Null>
Soft Start Impact	5/3/23 14:13	5/3/23 14:13	No	No	Adam Sachs	ND-20	North Dolphin	<Null>
Soft Start Impact	5/3/23 14:18	5/3/23 14:18	No	No	Adam Sachs	ND-20	North Dolphin	<Null>
Soft Start Impact	5/3/23 14:19	5/3/23 14:19	No	No	Adam Sachs	ND-20	North Dolphin	<Null>
Soft Start Impact	5/3/23 14:20	5/3/23 14:21	No	No	Adam Sachs	ND-20	North Dolphin	<Null>
Soft Start Impact	5/3/23 14:23	5/3/23 14:23	No	No	Adam Sachs	ND-20	North Dolphin	<Null>
Pile Driving Impact	5/3/23 14:24	5/3/23 14:48	Yes	No	Adam Sachs	ND-20	North Dolphin	<Null>
Soft Start Impact	5/3/23 15:24	5/3/23 15:24	No	No	Adam Sachs	ND-5	North Dolphin	<Null>
Soft Start Impact	5/3/23 15:25	5/3/23 15:25	No	No	Adam Sachs	ND-5	North Dolphin	<Null>
Soft Start Impact	5/3/23 15:28	5/3/23 15:28	No	No	Adam Sachs	ND-5	North Dolphin	<Null>
Soft Start Impact	5/3/23 15:29	5/3/23 15:29	No	No	Adam Sachs	ND-5	North Dolphin	<Null>
Soft Start Impact	5/3/23 15:30	5/3/23 15:30	No	No	Adam Sachs	ND-5	North Dolphin	<Null>
Soft Start Impact	5/3/23 15:30	5/3/23 15:30	No	No	Adam Sachs	ND-5	North Dolphin	<Null>
Pile Driving Impact	5/3/23 15:31	5/3/23 15:56	No	No	Adam Sachs	ND-5	North Dolphin	<Null>
Stand By	5/3/23 16:05	5/3/23 16:16	No	No	Adam Sachs	NA	North Dolphin	<Null>
Post Construction	5/3/23 16:16	5/3/23 16:46	No	No	Adam Sachs	NA	North Dolphin	<Null>
Pre Construction	5/4/23 7:34	5/4/23 8:05	No	No	Adam Sachs	NA	North Dolphin	<Null>
Stand By	5/4/23 8:13	5/4/23 8:05	No	No	Adam Sachs	NA	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 9:52	5/4/23 9:52	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 10:08	5/4/23 10:08	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 10:09	5/4/23 10:09	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:10	5/4/23 10:11	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:10	5/4/23 10:10	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:11	5/4/23 10:12	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:12	5/4/23 10:17	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 10:31	5/4/23 10:31	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 10:32	5/4/23 10:33	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 10:32	5/4/23 10:32	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 10:33	5/4/23 10:33	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:34	5/4/23 10:35	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:34	5/4/23 10:34	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:34	5/4/23 10:34	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:35	5/4/23 10:35	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:36	5/4/23 10:36	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:36	5/4/23 10:36	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:36	5/4/23 10:36	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:36	5/4/23 10:36	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:37	5/4/23 10:38	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:37	5/4/23 10:37	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:37	5/4/23 10:37	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:38	5/4/23 10:42	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 10:53	5/4/23 10:54	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 10:53	5/4/23 10:53	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:54	5/4/23 10:54	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:54	5/4/23 10:54	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 10:54	5/4/23 10:54	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 10:54	5/4/23 10:54	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:55	5/4/23 10:55	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:55	5/4/23 10:55	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:55	5/4/23 10:55	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:55	5/4/23 10:55	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:55	5/4/23 10:55	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:55	5/4/23 10:55	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:55	5/4/23 10:55	No	No	Adam Sachs	ND-2	North Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	5/4/23 10:55	5/4/23 10:55	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:56	5/4/23 10:57	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:56	5/4/23 10:56	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:56	5/4/23 10:56	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:56	5/4/23 10:56	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:56	5/4/23 10:56	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:56	5/4/23 10:56	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:56	5/4/23 10:56	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:56	5/4/23 10:56	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:57	5/4/23 10:57	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:57	5/4/23 10:57	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:57	5/4/23 10:57	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:57	5/4/23 10:57	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:57	5/4/23 10:57	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:58	5/4/23 11:02	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:58	5/4/23 10:58	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:58	5/4/23 10:58	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 10:58	5/4/23 10:58	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 11:22	5/4/23 11:22	No	No	Adam Sachs	ND-16	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 11:23	5/4/23 11:23	No	No	Adam Sachs	ND-16	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 11:23	5/4/23 11:23	No	No	Adam Sachs	ND-16	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 11:24	5/4/23 11:25	No	No	Adam Sachs	ND-16	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 11:25	5/4/23 11:26	No	No	Adam Sachs	ND-16	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 11:26	5/4/23 11:26	No	No	Adam Sachs	ND-16	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 11:27	5/4/23 11:30	No	No	Adam Sachs	ND-16	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 11:30	5/4/23 11:31	No	No	Adam Sachs	ND-16	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 11:38	5/4/23 11:35	No	No	Adam Sachs	ND-11	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 11:39	5/4/23 11:39	No	No	Adam Sachs	ND-11	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 11:40	5/4/23 11:40	No	No	Adam Sachs	ND-11	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 11:41	5/4/23 11:41	No	No	Adam Sachs	ND-11	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 11:45	5/4/23 11:49	No	No	Adam Sachs	ND-11	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 11:57	5/4/23 11:58	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 11:58	5/4/23 11:58	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 11:59	5/4/23 12:00	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 11:59	5/4/23 11:59	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:00	5/4/23 12:01	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:01	5/4/23 12:01	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:02	5/4/23 12:02	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:03	5/4/23 12:03	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:04	5/4/23 12:05	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:04	5/4/23 12:04	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:04	5/4/23 12:04	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:05	5/4/23 12:07	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:12	5/4/23 12:12	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:12	5/4/23 12:12	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 12:12	5/4/23 12:12	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 12:13	5/4/23 12:14	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 12:14	5/4/23 12:15	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 12:14	5/4/23 12:14	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 12:15	5/4/23 12:15	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 12:15	5/4/23 12:15	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 12:16	5/4/23 12:17	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Pile Driving Vibratory	5/4/23 12:17	5/4/23 12:17	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Stand By	5/4/23 12:18	5/4/23 13:03	No	No	Adam Sachs	NA	North Dolphin	Lunch.
Pre Construction	5/4/23 13:03	5/4/23 13:32	No	No	Adam Sachs	NA	North Dolphin	<Null>
Stand By	5/4/23 13:32	5/4/23 13:47	No	No	Adam Sachs	NA	North Dolphin	<Null>
Soft Start Impact	5/4/23 13:59	5/4/23 13:59	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Soft Start Impact	5/4/23 14:00	5/4/23 14:00	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Impact	5/4/23 14:01	5/4/23 14:11	No	No	Adam Sachs	ND-4	North Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Impact	5/4/23 14:17	5/4/23 14:18	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Impact	5/4/23 14:50	5/4/23 14:50	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Impact	5/4/23 15:00	5/4/23 15:07	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Stand By	5/4/23 15:07	5/4/23 15:19	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Impact	5/4/23 15:19	5/4/23 15:23	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Soft Start Impact	5/4/23 15:39	5/4/23 15:39	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Impact	5/4/23 15:40	5/4/23 16:03	No	No	Adam Sachs	ND-3	North Dolphin	<Null>
Pile Driving Impact	5/4/23 16:09	5/4/23 16:40	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Soft Start Vibratory	5/4/23 16:09	5/4/23 16:09	No	No	Adam Sachs	ND-2	North Dolphin	<Null>
Soft Start Impact	5/4/23 16:58	5/4/23 16:58	No	No	Adam Sachs	ND-16	North Dolphin	<Null>
Pile Driving Impact	5/4/23 16:59	5/4/23 17:24	No	No	Adam Sachs	ND-16	North Dolphin	<Null>
Post Construction	5/4/23 17:26	5/4/23 17:56	No	No	Adam Sachs	NA	North Dolphin	<Null>
Pre Construction	5/5/23 6:55	5/5/23 7:25	No	No	Adam Sachs	NA	North Dolphin	<Null>
Soft Start Impact	5/5/23 7:25	5/5/23 7:25	No	No	Adam Sachs	ND-11	North Dolphin	<Null>
Soft Start Impact	5/5/23 7:26	5/5/23 7:26	No	No	Adam Sachs	ND-11	North Dolphin	<Null>
Pile Driving Impact	5/5/23 7:27	5/5/23 7:52	No	No	Adam Sachs	ND-11	North Dolphin	<Null>
Pile Driving Impact	5/5/23 7:56	5/5/23 7:58	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Impact	5/5/23 8:08	5/5/23 8:08	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Impact	5/5/23 8:09	5/5/23 8:10	No	No	Adam Sachs	ND-4	North Dolphin	<Null>
Pile Driving Impact	5/5/23 8:23	5/5/23 8:59	No	No	Adam Sachs	ND-6	North Dolphin	<Null>
Pile Driving Impact	5/5/23 9:03	5/5/23 9:40	No	No	Adam Sachs	ND-1	North Dolphin	<Null>
Post Construction	5/5/23 9:45	5/5/23 10:15	No	No	Adam Sachs	NA	North Dolphin	<Null>
Stand By	5/5/23 10:15	5/5/23 13:30	No	No	Adam Sachs	NA	North Dolphin	<Null>
Pre Construction	5/5/23 13:32	5/5/23 14:06	No	No	Adam Sachs	NA	North Dolphin	Work done at 1400 hours.
Pre Construction	5/8/23 8:00	5/8/23 8:51	No	No	Gayle McDermott	NA	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 8:52	5/8/23 8:52	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 8:52	5/8/23 8:52	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 8:54	5/8/23 8:55	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 8:54	5/8/23 8:54	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 8:55	5/8/23 8:56	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 8:56	5/8/23 8:57	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 8:56	5/8/23 8:56	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 8:58	5/8/23 9:02	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 9:06	5/8/23 9:06	No	No	Gayle McDermott	ND-10	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 9:07	5/8/23 9:07	No	No	Gayle McDermott	ND-10	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:08	5/8/23 9:08	No	No	Gayle McDermott	ND-10	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 9:08	5/8/23 9:08	No	No	Gayle McDermott	ND-10	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:10	5/8/23 9:10	No	No	Gayle McDermott	ND-10	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:11	5/8/23 9:11	No	No	Gayle McDermott	ND-10	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:12	5/8/23 9:15	No	No	Gayle McDermott	ND-10	North Dolphin	<Null>
Stand By	5/8/23 9:15	5/8/23 9:41	No	No	Gayle McDermott	ND-10	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:42	5/8/23 9:43	No	No	Gayle McDermott	ND-19	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 9:42	5/8/23 9:42	No	No	Gayle McDermott	ND-19	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 9:42	5/8/23 9:42	No	No	Gayle McDermott	ND-19	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 9:42	5/8/23 9:42	No	No	Gayle McDermott	ND-19	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:44	5/8/23 9:44	No	No	Gayle McDermott	ND-19	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:45	5/8/23 9:46	No	No	Gayle McDermott	ND-19	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:45	5/8/23 9:45	No	No	Gayle McDermott	ND-19	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:46	5/8/23 9:46	No	No	Gayle McDermott	ND-19	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:47	5/8/23 9:50	No	No	Gayle McDermott	ND-19	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 9:54	5/8/23 9:54	No	No	Gayle McDermott	ND-14	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 9:54	5/8/23 9:54	No	No	Gayle McDermott	ND-14	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 9:54	5/8/23 9:54	No	No	Gayle McDermott	ND-14	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:55	5/8/23 9:55	No	No	Gayle McDermott	ND-14	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:56	5/8/23 9:56	No	No	Gayle McDermott	ND-14	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 9:57	5/8/23 9:59	No	No	Gayle McDermott	ND-14	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 10:20	5/8/23 10:21	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 10:20	5/8/23 10:20	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 10:21	5/8/23 10:21	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:22	5/8/23 10:23	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:22	5/8/23 10:22	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:23	5/8/23 10:23	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:24	5/8/23 10:25	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	5/8/23 10:24	5/8/23 10:24	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:25	5/8/23 10:26	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 10:34	5/8/23 10:35	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:35	5/8/23 10:36	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:35	5/8/23 10:35	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 10:35	5/8/23 10:35	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:37	5/8/23 10:38	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:37	5/8/23 10:37	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:37	5/8/23 10:37	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:38	5/8/23 10:38	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:39	5/8/23 10:40	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:39	5/8/23 10:39	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 10:40	5/8/23 10:41	No	No	Gayle McDermott	ND-18	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 10:46	5/8/23 10:46	No	No	Gayle McDermott	ND-13	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 10:46	5/8/23 10:46	No	No	Gayle McDermott	ND-13	North Dolphin	<Null>
Pile Driving Impact	5/8/23 10:47	5/8/23 10:48	No	No	Gayle McDermott	ND-13	North Dolphin	Kept opening and adjusting jaws.
Pile Driving Impact	5/8/23 10:47	5/8/23 10:47	No	No	Gayle McDermott	ND-13	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 10:47	5/8/23 10:47	No	No	Gayle McDermott	ND-13	North Dolphin	<Null>
Pile Driving Impact	5/8/23 10:49	5/8/23 10:50	No	No	Gayle McDermott	ND-13	North Dolphin	Kept opening and adjusting jaws.
Pile Driving Impact	5/8/23 10:49	5/8/23 10:49	No	No	Gayle McDermott	ND-13	North Dolphin	<Null>
Pile Driving Impact	5/8/23 10:50	5/8/23 10:50	No	No	Gayle McDermott	ND-13	North Dolphin	<Null>
Pile Driving Impact	5/8/23 10:53	5/8/23 10:53	No	No	Gayle McDermott	ND-13	North Dolphin	<Null>
Pile Driving Impact	5/8/23 10:54	5/8/23 10:55	No	No	Gayle McDermott	ND-13	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:00	5/8/23 11:01	No	No	Gayle McDermott	ND-8	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:00	5/8/23 11:00	No	No	Gayle McDermott	ND-8	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:00	5/8/23 11:00	No	No	Gayle McDermott	ND-8	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:01	5/8/23 11:01	No	No	Gayle McDermott	ND-8	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:02	5/8/23 11:03	No	No	Gayle McDermott	ND-8	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:02	5/8/23 11:02	No	No	Gayle McDermott	ND-8	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:03	5/8/23 11:04	No	No	Gayle McDermott	ND-8	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:04	5/8/23 11:05	No	No	Gayle McDermott	ND-8	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:05	5/8/23 11:07	No	No	Gayle McDermott	ND-8	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:10	5/8/23 11:10	No	No	Gayle McDermott	ND-17	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:13	5/8/23 11:13	No	No	Gayle McDermott	ND-17	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:13	5/8/23 11:13	No	No	Gayle McDermott	ND-17	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:13	5/8/23 11:13	No	No	Gayle McDermott	ND-17	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:13	5/8/23 11:13	No	No	Gayle McDermott	ND-17	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:14	5/8/23 11:19	No	No	Gayle McDermott	ND-17	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:14	5/8/23 11:14	No	No	Gayle McDermott	ND-17	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:14	5/8/23 11:14	No	No	Gayle McDermott	ND-17	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:26	5/8/23 11:26	No	No	Gayle McDermott	ND-12	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:27	5/8/23 11:28	No	No	Gayle McDermott	ND-12	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:27	5/8/23 11:27	No	No	Gayle McDermott	ND-12	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:27	5/8/23 11:27	No	No	Gayle McDermott	ND-12	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:28	5/8/23 11:30	No	No	Gayle McDermott	ND-12	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:33	5/8/23 11:33	No	No	Gayle McDermott	ND-7	North Dolphin	<Null>
Post Construction	5/8/23 11:34	5/8/23 12:04	No	No	Gayle McDermott	NA	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:34	5/8/23 11:36	No	No	Gayle McDermott	ND-7	North Dolphin	<Null>
Pile Driving Vibratory	5/8/23 11:34	5/8/23 11:34	No	No	Gayle McDermott	ND-7	North Dolphin	<Null>
Soft Start Vibratory	5/8/23 11:34	5/8/23 11:34	No	No	Gayle McDermott	ND-7	North Dolphin	<Null>
Pre Construction	5/8/23 12:31	5/8/23 1:13	No	No	Gayle McDermott	NA	North Dolphin	<Null>
Soft Start Impact	5/8/23 13:13	5/8/23 13:13	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Soft Start Impact	5/8/23 13:14	5/8/23 13:14	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Pile Driving Impact	5/8/23 13:15	5/8/23 13:40	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Soft Start Impact	5/8/23 13:15	5/8/23 13:15	No	No	Gayle McDermott	ND-15	North Dolphin	<Null>
Pile Driving Impact	5/8/23 13:45	5/8/23 14:12	No	No	Gayle McDermott	ND-10	North Dolphin	<Null>
Pile Driving Impact	5/8/23 14:20	5/8/23 14:20	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>
Pile Driving Impact	5/8/23 14:21	5/8/23 14:50	No	No	Gayle McDermott	ND-9	North Dolphin	<Null>
Pile Driving Impact	5/8/23 14:54	5/8/23 15:17	No	No	Gayle McDermott	ND-19	North Dolphin	<Null>
Pile Driving Impact	5/8/23 15:22	5/8/23 15:49	No	No	Gayle McDermott	ND-14	North Dolphin	<Null>
Post Construction	5/8/23 15:50	5/8/23 16:20	No	No	Gayle McDermott	NA	North Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pre Construction	5/9/23 7:00	5/9/23 7:30	No	No	Adam Sachs	NA	North Dolphin	<Null>
Soft Start Impact	5/9/23 7:31	5/9/23 7:31	No	No	Adam Sachs	ND-18	North Dolphin	<Null>
Soft Start Impact	5/9/23 7:32	5/9/23 7:32	No	No	Adam Sachs	ND-18	North Dolphin	<Null>
Soft Start Impact	5/9/23 7:32	5/9/23 7:32	No	No	Adam Sachs	ND-18	North Dolphin	<Null>
Pile Driving Impact	5/9/23 7:33	5/9/23 7:57	No	No	Adam Sachs	ND-18	North Dolphin	<Null>
Soft Start Impact	5/9/23 8:00	5/9/23 8:00	No	No	Adam Sachs	ND-13	North Dolphin	<Null>
Soft Start Impact	5/9/23 8:01	5/9/23 8:01	No	No	Adam Sachs	ND-13	North Dolphin	<Null>
Soft Start Impact	5/9/23 8:02	5/9/23 8:02	No	No	Adam Sachs	ND-13	North Dolphin	<Null>
Pile Driving Impact	5/9/23 8:03	5/9/23 8:29	No	No	Adam Sachs	ND-13	North Dolphin	<Null>
Soft Start Impact	5/9/23 8:33	5/9/23 8:34	No	No	Adam Sachs	ND-8	North Dolphin	<Null>
Soft Start Impact	5/9/23 8:33	5/9/23 8:33	No	No	Adam Sachs	ND-8	North Dolphin	<Null>
Soft Start Impact	5/9/23 8:34	5/9/23 8:34	No	No	Adam Sachs	ND-8	North Dolphin	<Null>
Pile Driving Impact	5/9/23 8:35	5/9/23 9:14	No	No	Adam Sachs	ND-8	North Dolphin	<Null>
Soft Start Impact	5/9/23 9:20	5/9/23 9:20	No	No	Adam Sachs	ND-7	North Dolphin	<Null>
Soft Start Impact	5/9/23 9:21	5/9/23 9:21	No	No	Adam Sachs	ND-7	North Dolphin	<Null>
Soft Start Impact	5/9/23 9:21	5/9/23 9:21	No	No	Adam Sachs	ND-7	North Dolphin	<Null>
Pile Driving Impact	5/9/23 9:22	5/9/23 9:59	No	No	Adam Sachs	ND-7	North Dolphin	<Null>
Soft Start Impact	5/9/23 10:03	5/9/23 10:03	No	No	Adam Sachs	ND-12	North Dolphin	<Null>
Soft Start Impact	5/9/23 10:04	5/9/23 10:05	No	No	Adam Sachs	ND-12	North Dolphin	<Null>
Soft Start Impact	5/9/23 10:04	5/9/23 10:04	No	No	Adam Sachs	ND-12	North Dolphin	<Null>
Pile Driving Impact	5/9/23 10:05	5/9/23 10:09	No	No	Adam Sachs	ND-12	North Dolphin	<Null>
Pile Driving Impact	5/9/23 10:09	5/9/23 10:10	No	No	Adam Sachs	ND-12	North Dolphin	<Null>
Pile Driving Impact	5/9/23 10:11	5/9/23 10:11	No	No	Adam Sachs	ND-12	North Dolphin	<Null>
Pile Driving Impact	5/9/23 10:31	5/9/23 10:56	No	No	Adam Sachs	ND-12	North Dolphin	<Null>
Soft Start Impact	5/9/23 11:00	5/9/23 11:00	No	No	Adam Sachs	ND-17	North Dolphin	<Null>
Soft Start Impact	5/9/23 11:01	5/9/23 11:01	No	No	Adam Sachs	ND-17	North Dolphin	<Null>
Soft Start Impact	5/9/23 11:02	5/9/23 11:02	No	No	Adam Sachs	ND-17	North Dolphin	<Null>
Pile Driving Impact	5/9/23 11:03	5/9/23 11:26	No	No	Adam Sachs	ND-17	North Dolphin	<Null>
Post Construction	5/9/23 11:27	5/9/23 12:04	No	No	Adam Sachs	NA	North Dolphin	<Null>
Stand By	9/25/23 7:00	9/25/23 9:30	No	No	Alex Shepherd	NA	North Dolphin	Standby post tailboard
Stand By	9/25/23 7:00	9/25/23 9:30	No	No	Alex Shepherd	NA	North Dolphin	<Null>
Pre Construction	9/25/23 9:30	9/25/23 10:00	No	No	Alex Shepherd	NA	North Dolphin	30 minute precon survey. 10 am anticipated start of construction.
Stand By	9/25/23 10:00	9/25/23 12:45	No	No	Alex Shepherd	NA	North Dolphin	Standby after initial pre-con survey (30mins).
Pre Construction	9/25/23 12:45	9/25/23 13:15	No	No	Alex Shepherd	NA	North Dolphin	North dolphin platform. Crews moving equipment around.
Soft Start Vibratory	9/25/23 13:22	9/25/23 13:23	No	No	Alex Shepherd	ND-FP1	North Dolphin	North dolphin platform.
Pile Driving Vibratory	9/25/23 13:23	9/25/23 13:25	No	No	Alex Shepherd	ND-FP1	North Dolphin	North dolphin platform pile removals. NT1 and NT2.
Soft Start Vibratory	9/25/23 13:23	9/25/23 13:23	No	No	Alex Shepherd	ND-FP1	North Dolphin	North dolphin platform.
Soft Start Vibratory	9/25/23 13:23	9/25/23 13:23	No	No	Alex Shepherd	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	9/25/23 13:28	9/25/23 13:28	No	No	Alex Shepherd	ND-FP1	North Dolphin	North dolphin platform pile removals. NT1 and NT2.
Pile Driving Vibratory	9/25/23 13:28	9/25/23 13:28	No	No	Alex Shepherd	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	9/25/23 13:28	9/25/23 13:28	No	No	Alex Shepherd	ND-FP1	North Dolphin	<Null>
Pile Driving Vibratory	9/25/23 13:29	9/25/23 13:31	No	No	Alex Shepherd	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	9/25/23 13:31	9/25/23 13:32	No	No	Alex Shepherd	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	9/25/23 13:32	9/25/23 13:32	No	No	Alex Shepherd	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	9/25/23 13:32	9/25/23 13:32	No	No	Alex Shepherd	ND-FP2	North Dolphin	<Null>
Pile Driving Vibratory	9/25/23 13:36	9/25/23 13:38	No	No	Alex Shepherd	ND-FP3	North Dolphin	North dolphin platform NT3.
Pile Driving Vibratory	9/25/23 13:57	9/25/23 13:58	No	No	Alex Shepherd	ND-FP5	North Dolphin	North dolphin platform pile NT5
Pile Driving Vibratory	9/25/23 14:02	9/25/23 14:04	No	No	Alex Shepherd	ND-FP4	North Dolphin	North dolphin platform pile NT4
Pile Driving Vibratory	9/25/23 14:07	9/25/23 14:08	No	No	Alex Shepherd	ND-FP6	North Dolphin	North dolphin platform pile NT6
Stand By	9/25/23 14:16	9/25/23 15:00	No	No	Alex Shepherd	NA	North Dolphin	Post vibratory standby at north dolphin.
Post Construction	9/25/23 15:00	9/25/23 15:30	No	No	Alex Shepherd	NA	North Dolphin	North dolphin monitoring complete. 6 piles vibed. 4 piles pulled. Pre-con survey 30 mins negative.
Pre Construction	9/26/23 6:40	9/26/23 7:26	No	No	Derek Lerma	NA	North Dolphin	North dolphin
Pre Construction	9/26/23 7:00	9/26/23 6:27	No	No	Derek Lerma	ND-FP7	North Dolphin	Vibe NTB out
Soft Start Vibratory	9/26/23 7:26	9/26/23 7:27	No	No	Derek Lerma	ND-FP7	North Dolphin	<Null>
Soft Start Vibratory	9/26/23 7:28	9/26/23 7:29	No	No	Derek Lerma	ND-FP7	North Dolphin	<Null>
Soft Start Vibratory	9/26/23 7:29	9/26/23 7:30	No	No	Derek Lerma	ND-FP7	North Dolphin	<Null>
Pile Driving Vibratory	9/26/23 7:31	9/26/23 7:33	No	No	Derek Lerma	ND-FP7	North Dolphin	<Null>
Soft Start Vibratory	9/26/23 7:35	9/26/23 7:35	No	No	Derek Lerma	ND-FP8	North Dolphin	<Null>
Pile Driving Vibratory	9/26/23 7:36	9/26/23 7:37	No	No	Derek Lerma	ND-FP8	North Dolphin	<Null>
Pile Driving Vibratory	9/26/23 7:47	9/26/23 7:48	No	No	Derek Lerma	ND-FP8	North Dolphin	<Null>
Post Construction	9/26/23 7:52	9/26/23 9:12	No	No	Derek Lerma	NA	North Dolphin	<Null>

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Stand By	9/28/23 6:00	9/28/23 8:10	No	No	Alex Shepherd	NA	South Dolphin	Tailboard meeting and post tailboard standby. Estimated start to pile removal is 0830.
Pre Construction	9/28/23 8:10	9/28/23 8:40	No	No	Alex Shepherd	ND-FP9	South Dolphin	Crew switched to expansion tower piles.
Soft Start Vibratory	9/28/23 8:41	9/28/23 8:41	No	No	Alex Shepherd	ND-FP9	South Dolphin	Start pile vibes at expansion tower. 3 soft starts on Expansion tower pile 1.
Soft Start Vibratory	9/28/23 8:41	9/28/23 8:41	No	No	Alex Shepherd	ND-FP9	South Dolphin	<Null>
Soft Start Vibratory	9/28/23 8:41	9/28/23 8:41	No	No	Alex Shepherd	ND-FP9	South Dolphin	<Null>
Pile Driving Vibratory	9/28/23 8:42	9/28/23 9:08	No	No	Alex Shepherd	ND-FP9	South Dolphin	Full vibe start an expansion tower pile 1 ET1
Pile Driving Vibratory	9/28/23 9:13	9/28/23 9:13	No	No	Alex Shepherd	ND-FP9	South Dolphin	Full vibe start an expansion tower pile 1 ET1
Pile Driving Vibratory	9/28/23 9:30	9/28/23 9:41	No	No	Alex Shepherd	ND-FP10	South Dolphin	Full vibe start an expansion tower pile 2 ET2
Stand By	9/28/23 9:43	9/28/23 12:30	No	No	Alex Shepherd	NA	South Dolphin	Standby and break. Repositioning of crane and pulled piles. Continue into lunch.
Pre Construction	9/28/23 12:30	9/28/23 13:00	No	No	Alex Shepherd	NA	South Dolphin	Post lunch precon survey.
Soft Start Vibratory	9/28/23 13:00	9/28/23 13:00	No	No	Alex Shepherd	ND-FP11	South Dolphin	Post lunch, post s3cond precon soft vibe x3.
Soft Start Vibratory	9/28/23 13:00	9/28/23 13:00	No	No	Alex Shepherd	ND-FP11	South Dolphin	Post lunch, post s3cond precon soft vibe x3.
Pile Driving Vibratory	9/28/23 13:01	9/28/23 13:04	No	No	Alex Shepherd	ND-FP11	South Dolphin	Full vibe start at expansion tower pile 3 ET3
Soft Start Vibratory	9/28/23 13:01	9/28/23 13:01	No	No	Alex Shepherd	ND-FP11	South Dolphin	Post lunch, post s3cond precon soft vibe x3.
Pile Driving Vibratory	9/28/23 13:05	9/28/23 13:05	No	No	Alex Shepherd	ND-FP11	South Dolphin	Full vibe start at expansion tower pile 3 ET3
Pile Driving Vibratory	9/28/23 13:06	9/28/23 13:07	No	No	Alex Shepherd	ND-FP11	South Dolphin	Full vibe start at expansion tower pile 3 ET3
Post Construction	9/28/23 13:15	9/28/23 13:45	No	No	Alex Shepherd	NA	South Dolphin	Work activities cut short due to move to 8 hour schedule.
Stand By	9/29/23 6:00	9/29/23 6:45	No	No	Alex Shepherd	NA	Center Catwalk	Tailboard and mobilization. Precon to start at 0645.
Pre Construction	9/29/23 6:45	9/29/23 7:15	No	No	Alex Shepherd	NA	Center Catwalk	First Preconstruction survey before work start.
Stand By	9/29/23 7:15	9/29/23 7:24	No	No	Alex Shepherd	NA	Center Catwalk	Post-preconstruction survey standby.
Soft Start Vibratory	9/29/23 7:25	9/29/23 7:25	No	No	Alex Shepherd	ND-FP12	Center Catwalk	False start soft start x3 on ET4.
Soft Start Vibratory	9/29/23 7:29	9/29/23 7:29	No	No	Alex Shepherd	ND-FP12	Center Catwalk	False start soft start x3 on ET4.
Pile Driving Vibratory	9/29/23 7:30	9/29/23 7:34	No	No	Alex Shepherd	ND-FP12	Center Catwalk	Full hammer vibratory start of extension tower pile 4 ET4.
Soft Start Vibratory	9/29/23 7:30	9/29/23 7:30	No	No	Alex Shepherd	ND-FP12	Center Catwalk	False start soft start x3 on ET4.
Soft Start Vibratory	9/29/23 7:30	9/29/23 7:30	No	No	Alex Shepherd	ND-FP12	Center Catwalk	False start soft start x3 on ET4.
Pile Driving Vibratory	9/29/23 7:45	9/29/23 7:45	No	No	Alex Shepherd	ND-FP5	Center Catwalk	Full hammer vibratory start of extension tower pile 5 ET5.
Pile Driving Vibratory	9/29/23 7:46	9/29/23 7:53	No	No	Alex Shepherd	ND-FP5	Center Catwalk	Full hammer vibratory start of extension tower pile 5 ET5.
Pile Driving Vibratory	9/29/23 7:54	9/29/23 7:55	No	No	Alex Shepherd	ND-FP5	Center Catwalk	Full hammer vibratory start of extension tower pile 5 ET5.
Pile Driving Vibratory	9/29/23 7:56	9/29/23 7:57	No	No	Alex Shepherd	ND-FP5	Center Catwalk	Full hammer vibratory start of extension tower pile 5 ET5.
Pile Driving Vibratory	9/29/23 8:03	9/29/23 8:04	No	No	Alex Shepherd	ND-FP5	Center Catwalk	Full hammer vibratory start of extension tower pile 5 ET5.
Pile Driving Vibratory	9/29/23 8:13	9/29/23 8:24	No	No	Alex Shepherd	ND-FP5	Center Catwalk	Full hammer vibratory start of extension tower pile 6 ET6.
Pile Driving Vibratory	9/29/23 8:26	9/29/23 8:27	No	No	Alex Shepherd	ND-FP5	Center Catwalk	Full hammer vibratory start of extension tower pile 6 ET6.
Pile Driving Vibratory	9/29/23 8:29	9/29/23 8:33	No	No	Alex Shepherd	ND-FP5	Center Catwalk	Full hammer vibratory start of extension tower pile 6 ET6.
Post Construction	9/29/23 8:35	9/29/23 9:05	No	No	Alex Shepherd	NA	Center Catwalk	Postcon for extended standby.
Stand By	9/29/23 9:05	9/29/23 13:00	No	No	Alex Shepherd	NA	Center Catwalk	Standby. End of day.
Stand By	10/2/23 6:00	10/2/23 8:00	No	No	Alex Shepherd	NA	South Dolphin	Tailboard and standby.
Stand By	10/2/23 8:00	10/2/23 9:47	No	No	Alex Shepherd	NA	South Dolphin	<Null>
Pre Construction	10/2/23 8:00	10/2/23 8:30	No	No	Alex Shepherd	NA	South Dolphin	Preconstruction survey. 30 mins. First of day.
Soft Start Vibratory	10/2/23 9:48	10/2/23 9:48	No	No	Alex Shepherd	SD-FP1	South Dolphin	First vibe of day. False start soft vibe 3x.
Pile Driving Vibratory	10/2/23 9:49	10/2/23 9:53	No	No	Alex Shepherd	SD-FP1	South Dolphin	South dolphin pile vibratory SD1
Soft Start Vibratory	10/2/23 9:49	10/2/23 9:49	No	No	Alex Shepherd	SD-FP1	South Dolphin	First vibe of day. False start soft vibe 3x.
Soft Start Vibratory	10/2/23 9:49	10/2/23 9:49	No	No	Alex Shepherd	SD-FP1	South Dolphin	First vibe of day. False start soft vibe 3x.
Pile Driving Vibratory	10/2/23 9:54	10/2/23 9:55	No	No	Alex Shepherd	SD-FP1	South Dolphin	South dolphin pile vibratory SD1
Pile Driving Vibratory	10/2/23 9:58	10/2/23 10:03	No	No	Alex Shepherd	SD-FP2	South Dolphin	South dolphin pile vibratory SD2
Pile Driving Vibratory	10/2/23 10:11	10/2/23 10:16	No	No	Alex Shepherd	SD-FP3	South Dolphin	South dolphin pile vibratory SD3
Post Construction	10/2/23 10:16	10/2/23 10:46	No	No	Alex Shepherd	NA	South Dolphin	Crew is dry pulling piles. No vibe expected until after lunch.
Pre Construction	10/2/23 12:00	10/2/23 12:30	No	No	Alex Shepherd	NA	South Dolphin	Post lunch precon. 30 mins.
Stand By	10/2/23 12:30	10/2/23 13:30	No	No	Alex Shepherd	NA	South Dolphin	Dry pulling SD1. Vibe work called off. End of day.
Stand By	10/2/23 22:46	10/2/23 12:00	No	No	Alex Shepherd	NA	South Dolphin	Dry pulling piles and lunch
Stand By	10/3/23 6:00	10/3/23 6:45	No	No	Alex Shepherd	NA	South Dolphin	Tailboard and standby.
Pre Construction	10/3/23 6:45	10/3/23 7:15	No	No	Alex Shepherd	NA	South Dolphin	30 min precon survey. First of day. Working at south dolphin platform.
Stand By	10/3/23 7:15	10/3/23 7:34	No	No	Alex Shepherd	NA	South Dolphin	Standby after first precon. Waiting for vibratory on remaining 3 piles at south dolphin.
Soft Start Vibratory	10/3/23 7:35	10/3/23 7:35	No	No	Alex Shepherd	SD-FP4	South Dolphin	3x false start on SD4 pile. First activity of the day.
Soft Start Vibratory	10/3/23 7:35	10/3/23 7:35	No	No	Alex Shepherd	SD-FP4	South Dolphin	3x false start on SD4 pile. First activity of the day.

Activity Type	Activity Start (Date/Time)	Activity Stop (Date/Time)	Alert	Shutdown	Lead Observer	Pile ID	Work Location	Activity Notes
Pile Driving Vibratory	10/3/23 7:36	10/3/23 7:41	No	No	Alex Shepherd	SD-FP4	South Dolphin	Ful vibe on SD4 pile.
Soft Start Vibratory	10/3/23 7:36	10/3/23 7:36	No	No	Alex Shepherd	SD-FP4	South Dolphin	3x false start on SD4 pile. First activity of the day.
Stand By	10/3/23 7:42	10/3/23 7:46	No	No	Alex Shepherd	NA	South Dolphin	Switch from SD4 to SD5 PILE.
Pile Driving Vibratory	10/3/23 7:47	10/3/23 7:52	No	No	Alex Shepherd	SD-FP5	South Dolphin	Vibe on SD5 PILE.
Stand By	10/3/23 7:53	10/3/23 8:06	No	No	Alex Shepherd	NA	South Dolphin	Switch from SD5 to SD6 PILE.
Pile Driving Vibratory	10/3/23 8:07	10/3/23 8:12	No	No	Alex Shepherd	SD-FP6	South Dolphin	Vibe on SD6 PILE.
Stand By	10/3/23 8:13	10/3/23 8:30	No	No	Alex Shepherd	NA	South Dolphin	Standby post SD6 PILE VIBE.
Post Construction	10/3/23 8:30	10/3/23 9:00	No	No	Alex Shepherd	NA	South Dolphin	Post vibe at south dolphin
Stand By	10/3/23 9:00	10/3/23 14:00	No	No	Alex Shepherd	NA	South Dolphin	Standby through lunch and end of day.
Soft Start Vibratory	10/4/23 8:00	10/4/23 8:00	No	No	Derek Lerma	Bp1	Shoreline Access	Tried dead pull
Soft Start Vibratory	10/4/23 8:00	10/4/23 8:00	No	No	Derek Lerma	Bp1	Shoreline Access	Tried dead pull
Soft Start Vibratory	10/4/23 8:01	10/4/23 8:01	No	No	Derek Lerma	Bp1	Shoreline Access	Tried dead pull
Pile Driving Vibratory	10/4/23 8:02	10/4/23 8:03	No	No	Derek Lerma	BP1	Shoreline Access	<Null>
Pile Driving Vibratory	10/4/23 8:20	10/4/23 8:21	No	No	Derek Lerma	BP1	Shoreline Access	<Null>
Soft Start Vibratory	10/4/23 10:00	10/4/23 10:01	No	No	Derek Lerma	BP2	Shoreline Access	<Null>
Pile Driving Vibratory	10/4/23 10:01	10/4/23 10:06	No	No	Derek Lerma	BP2	Shoreline Access	<Null>
Soft Start Vibratory	10/4/23 10:01	10/4/23 10:01	No	No	Derek Lerma	BP3	Shoreline Access	<Null>
Soft Start Vibratory	10/4/23 10:01	10/4/23 10:01	No	No	Derek Lerma	BP3	Shoreline Access	<Null>
Pile Driving Vibratory	10/4/23 10:22	10/4/23 10:30	No	No	Derek Lerma	BP3	Shoreline Access	<Null>
Soft Start Vibratory	10/4/23 12:12	10/4/23 12:13	No	No	Derek Lerma	BP3	Shoreline Access	Changed hammer jaws for 2nd try
Soft Start Vibratory	10/4/23 12:12	10/4/23 12:12	No	No	Derek Lerma	BP3	Shoreline Access	<Null>
Soft Start Vibratory	10/4/23 12:12	10/4/23 12:12	No	No	Derek Lerma	BP3	Shoreline Access	<Null>
Pile Driving Vibratory	10/4/23 12:13	10/4/23 12:14	No	No	Derek Lerma	BP1	Shoreline Access	2nd try
Pile Driving Vibratory	10/4/23 12:19	10/4/23 12:19	No	No	Derek Lerma	BP1	Shoreline Access	2nd try
Pile Driving Vibratory	10/4/23 12:20	10/4/23 12:22	No	No	Derek Lerma	BP1	Shoreline Access	2nd try
Post Construction	10/4/23 12:25	10/4/23 15:26	No	No	Derek Lerma	NA	Shoreline Access	Barge and cable issues
Stand By	10/5/23 6:00	10/5/23 6:30	No	No	Alex Shepherd	NA	Shoreline Access	Tailboard and mobilization.
Pre Construction	10/5/23 6:30	10/5/23 7:00	No	No	Alex Shepherd	NA	Shoreline Access	First preconstruction survey.
Pre Construction	10/5/23 6:36	10/4/23 8:00	No	No	Derek Lerma	Barge piles	Shoreline Access	7778887784
Soft Start Vibratory	10/5/23 7:10	10/5/23 7:11	No	No	Alex Shepherd	BP4	Shoreline Access	Vibratory pile false starts 3x on fourth pile at temp dock.
Soft Start Vibratory	10/5/23 7:10	10/5/23 7:10	No	No	Alex Shepherd	BP4	Shoreline Access	Vibratory pile false starts 3x on fourth pile at temp dock.
Pile Driving Vibratory	10/5/23 7:11	10/5/23 7:14	No	No	Alex Shepherd	BP4	Shoreline Access	Vibratory pile false starts 3x on fourth pile at temp dock.
Soft Start Vibratory	10/5/23 7:11	10/5/23 7:11	No	No	Alex Shepherd	BP4	Shoreline Access	Vibratory pile false starts 3x on fourth pile at temp dock.
Stand By	10/5/23 7:15	10/5/23 9:53	No	No	Alex Shepherd	BP4	Shoreline Access	Vibratory pile false starts 3x on fourth pile at temp dock.
Soft Start Vibratory	10/5/23 9:54	10/5/23 9:55	No	No	Alex Shepherd	BP4	Shoreline Access	Second false start after extended standby.
Soft Start Vibratory	10/5/23 9:54	10/5/23 9:54	No	No	Alex Shepherd	BP4	Shoreline Access	Second false start after extended standby.
Pile Driving Vibratory	10/5/23 9:55	10/5/23 9:57	No	No	Alex Shepherd	BP4	Shoreline Access	Vibratory pile removal at extension tower platform. ET4.
Soft Start Vibratory	10/5/23 9:55	10/5/23 9:55	No	No	Alex Shepherd	BP5	Shoreline Access	Second false start after extended standby.
Pile Driving Vibratory	10/5/23 10:04	10/5/23 10:07	No	No	Alex Shepherd	BP5	Shoreline Access	Vibratory pile removal at extension tower platform. ET5.
Pile Driving Vibratory	10/5/23 10:08	10/5/23 10:09	No	No	Alex Shepherd	BP5	Shoreline Access	Vibratory pile removal at extension tower platform. ET5.
Pile Driving Vibratory	10/5/23 10:14	10/5/23 10:16	No	No	Alex Shepherd	BP6	Shoreline Access	Vibratory pile removal at extension tower platform. ET6. Last pile
Post Construction	10/5/23 10:18	10/5/23 10:48	No	No	Alex Shepherd	NA	Shoreline Access	Anticipate no more vibratory hammer. Post construction 30 minute survey started.
Stand By	10/5/23 10:49	10/5/23 11:39	No	No	Alex Shepherd	NA	Shoreline Access	Standby for confirmation of end of day.

APPENDIX C

Daily Survey Data

Table C-1: Daily Survey Data.

Monitoring Start Date/ Time	Monitoring End Date/ Time	Lead Observer Name	Observer Affiliation	PSO Location	Time (Morning)	Weather Condition	Percent Cloud Cover	Visibility	Wave Height	Beaufort Wind Speed	Time (Afternoon)	Weather Condition	Percent Cloud Cover	Visibility	Wave Height	Beaufort Wind Speed	Time (End of Day)	Weather Condition	Percent Cloud Cover	Visibility	Wave Height	Beaufort Wind Speed				
3/2/2023, 9:45 AM	3/2/2023, 2:00 PM	Gayle McDermott	Rincon	P1	3/2/2023, 9:47 AM	Sunny	0	Excellent (>10km)	0 – 3 ft	1	3/2/2023, 12:00 PM	Sunny	0	Excellent (>10km)	0 – 3 ft	3	3/2/2023, 2:00 PM	Sunny	10	Excellent (>10km)		4				
3/8/2023, 6:29 AM	3/8/2023, 5:08 PM	Derek Lerma	Rincon	P1	3/8/2023, 7:35 AM	Sunny	0	Good (3 - 10km)	0 – 3 ft	2	3/8/2023, 12:30 PM	Partly Cloudy	50	Excellent (>10km)	0 – 3 ft	2	3/8/2023, 4:41 PM	Partly Cloudy	80	Excellent (>10km)	4 – 6 ft	3				
3/9/2023, 6:00 AM	3/9/2023, 12:30 PM	Gayle McDermott	Rincon	P1	3/9/2023, 6:49 AM	Sunny	5	Excellent (>10km)	0 – 3 ft	0	3/9/2023, 10:00 AM	Partly Cloudy	15	Excellent (>10km)	0 – 3 ft	2	3/9/2023, 12:00 PM	Sunny	25	Excellent (>10km)	0 – 3 ft	2				
3/10/2023, 8:30 AM	3/10/2023, 1:41 PM	Gayle McDermott	Rincon	P1	3/10/2023, 8:56 AM	Light Rain	100	Moderate (0.9 – 3km)	0 – 3 ft	2	3/10/2023, 11:53 AM	Light Rain	100	Moderate (0.9 – 3km)	4 – 6 ft	3	3/10/2023, 1:41 PM	Steady Rain	100	Poor (0.5 - 0.9km)	4 – 6 ft	3				
3/13/2023, 8:00 AM	3/13/2023, 5:00 PM	Gayle McDermott	Rincon	P1	3/13/2023, 8:21 AM	Partly Cloudy	75	Good (3 - 10km)	0 – 3 ft	2	3/13/2023, 12:00 PM	Sunny	33	Excellent (>10km)	0 – 3 ft	2	3/13/2023, 4:08 PM	Partly Cloudy	33	Excellent (>10km)	4 – 6 ft	3				
3/14/2023, 7:58 AM	3/14/2023, 10:30 AM	Gayle McDermott	Rincon	P1	3/14/2023, 7:58 AM	Fog	100	Moderate (0.9 – 3km)	0 – 3 ft	1	3/14/2023, 9:40 AM	Light Rain	100	Moderate (0.9 – 3km)	0 – 3 ft	1	3/17/2023, 10:15 AM	Light Rain	100	Good (3 - 10km)	4 – 6 ft	2				
3/15/2023, 7:40 AM	3/15/2023, 4:15 PM	Derek Lerma	Rincon	P1	3/15/2023, 7:40 AM	Light Rain	100	Poor (0.5 - 0.9km)	0 – 3 ft	1	3/15/2023, 12:09 PM	Overcast	100	Poor (0.5 - 0.9km)	0 – 3 ft	2	3/15/2023, 3:49 PM	Partly Cloudy	70	Moderate (0.9 – 3km)	0 – 3 ft	3				
3/16/2023, 8:13 AM	3/16/2023, 4:24 PM	Adam Sachs	Rincon	P1	3/16/2023, 8:14 AM	Partly Cloudy	100	Excellent (>10km)	0 – 3 ft	2	3/16/2023, 12:05 PM	Partly Cloudy	50	Moderate (0.9 – 3km)	0 – 3 ft	2	3/16/2023, 3:18 PM	Sunny	10	Good (3 - 10km)	0 – 3 ft	3				
3/17/2023, 7:30 AM	3/17/2023, 12:00 PM	Gayle McDermott	Rincon	P1	3/17/2023, 8:03 AM	Overcast	75	Good (3 - 10km)	0 – 3 ft	1	3/17/2023, 11:08 AM	Overcast	60	Good (3 - 10km)	0 – 3 ft	1	3/17/2023, 12:00 PM	Overcast	50	Good (3 - 10km)	0 – 3 ft	1				
3/20/2023, 7:43 AM	3/20/2023, 4:29 PM	Derek Lerma	Rincon	P1	3/20/2023, 7:44 AM	Light Rain	100	Moderate (0.9 – 3km)	0 – 3 ft	2	3/20/2023, 12:13 PM	Partly Cloudy	50	Good (3 - 10km)	0 – 3 ft	3	3/20/2023, 4:29 PM	Partly Cloudy	60	Good (3 - 10km)	0 – 3 ft	2				
3/21/2023, 7:30 AM	3/21/2023, 9:30 AM	Gayle McDermott	Rincon	P1	3/21/2023, 8:24 AM	Heavy Rain	100	Moderate (0.9 – 3km)	4 – 6 ft	4	3/21/2023, 9:07 AM	Heavy Rain	100	Poor (0.5 - 0.9km)	>6 ft	5	3/21/2023, 9:30 AM	Heavy Rain	100	Poor (0.5 - 0.9km)	>6 ft	6				
3/28/2023, 7:00 AM	3/28/2023, 7:15 PM	Gayle McDermott	Rincon	P1	3/28/2023, 7:26 AM	Partly Cloudy	50	Excellent (>10km)	0 – 3 ft	1	3/28/2023, 12:00 PM	Sunny	25	Excellent (>10km)	0 – 3 ft	2	3/28/2023, 4:40 PM	Sunny	10	Excellent (>10km)	0 – 3 ft	3				
3/29/2023, 7:53 AM	3/29/2023, 5:46 PM	Derek Lerma	Rincon	P1	3/29/2023, 7:54 AM	Light Rain	100	Poor (0.5 - 0.9km)	0 – 3 ft	3	3/29/2023, 12:46 PM	Partly Cloudy	40	Moderate (0.9 – 3km)	0 – 3 ft	3	3/29/2023, 5:20 PM	Partly Cloudy	10	Excellent (>10km)	0 – 3 ft	3				
3/30/2023, 7:00 AM	3/30/2023, 5:30 PM	Gayle McDermott	Rincon	P1	3/30/2023, 7:30 AM	Light Rain	100	Good (3 - 10km)	0 – 3 ft	0	3/30/2023, 1:06 PM	Partly Cloudy	75	Excellent (>10km)	0 – 3 ft	1	3/30/2023, 4:55 PM	Sunny	50	Excellent (>10km)	0 – 3 ft	3				
4/3/2023, 10:54 AM	4/3/2023, 3:39 PM	Derek Lerma	Rincon	P1	4/3/2023, 9:00 AM	Light Rain	100	Moderate (0.9 – 3km)	0 – 3 ft	2	4/3/2023, 12:46 PM	Sunny	10	Good (3 - 10km)	0 – 3 ft	3	4/3/2023, 3:39 PM	Sunny	5	Good (3 - 10km)	0 – 3 ft	4				
4/4/2023, 7:00 AM	4/4/2023, 5:53 PM	Ben Chubak	Rincon	P1	4/4/2023, 7:29 AM	Sunny	5	Excellent (>10km)	0 – 3 ft	3	4/4/2023, 12:45 PM	Sunny	5	Excellent (>10km)	0 – 3 ft	3	4/4/2023, 5:33 PM	Sunny	10	Excellent (>10km)	0 – 3 ft	3				
4/5/2023, 7:27 AM	4/5/2023, 6:01 PM	Adam Sachs	Rincon	P1	4/5/2023, 7:27 AM	Sunny	0	Excellent (>10km)	0 – 3 ft	0	4/5/2023, 12:30 PM	Sunny	5	Excellent (>10km)	0 – 3 ft	1	4/5/2023, 4:24 PM	Sunny	5	Excellent (>10km)	0 – 3 ft	1				
4/13/2023, 7:47 AM	4/13/2023, 5:35 PM	Adam Sachs	Rincon	P1	4/13/2023, 7:47 AM	Overcast	90	Good (3 - 10km)	0 – 3 ft	1	4/13/2023, 1:00 PM	Overcast	100	Good (3 - 10km)	0 – 3 ft	2	4/13/2023, 5:24 PM	Overcast	100	Good (3 - 10km)	0 – 3 ft	3				
4/14/2023, 7:01 AM	4/14/2023, 2:15 PM	Adam Sachs	Rincon	P1	4/14/2023, 7:01 AM	Overcast	80	Good (3 - 10km)	0 – 3 ft	2	4/14/2023, 12:15 PM	Partly Cloudy	70	Excellent (>10km)	0 – 3 ft	3	4/14/2023, 1:51 PM	Sunny	30		0 – 3 ft	3				
4/18/2023, 6:45 AM	4/18/2023, 5:00 PM	Ben Chubak	Rincon	P1	4/18/2023, 7:15 AM	Partly Cloudy	50	Excellent (>10km)	0 – 3 ft	1	4/18/2023, 11:51 AM	Partly Cloudy	40	Excellent (>10km)	0 – 3 ft	4	4/18/2023, 4:30 PM	Sunny	5	Excellent (>10km)	0 – 3 ft	3				
4/19/2023, 7:10 AM	4/19/2023, 4:55 PM	Adam Sachs	Rincon	P1	4/19/2023, 7:22 AM	Sunny	0	Excellent (>10km)	0 – 3 ft	1	4/19/2023, 1:00 PM	Sunny	15	Good (3 - 10km)	0 – 3 ft	3	4/19/2023, 4:09 PM	Sunny	5	Excellent (>10km)	0 – 3 ft	5				
4/20/2023, 7:51 AM	4/20/2023, 5:02 PM	Adam Sachs	Rincon	P1	4/20/2023, 7:51 AM	Sunny	0	Excellent (>10km)	0 – 3 ft	0	4/20/2023, 12:30 PM	Sunny	0	Excellent (>10km)	0 – 3 ft	2	4/20/2023, 4:34 PM	Sunny	5	Excellent (>10km)	0 – 3 ft	1				
4/21/2023, 8:00 AM	4/21/2023, 9:49 AM	Adam Sachs	Rincon	P1	No Monitoring																					
4/25/2023, 7:17 AM	4/25/2023, 6:21 PM	Derek Lerma	Rincon	P1	4/25/2023, 7:17 AM	Overcast		Good (3 - 10km)	0 – 3 ft	1	4/25/2023, 11:45 AM	Sunny	50	Good (3 - 10km)	0 – 3 ft	3	4/25/2023, 4:48 PM	Sunny	15	Good (3 - 10km)	0 – 3 ft	4				
4/27/2023, 7:00 AM	4/27/2023, 6:00 PM	Ben Chubak	Rincon	P1	4/27/2023, 7:30 AM	Fog	100	Moderate (0.9 – 3km)	0 – 3 ft	1	4/27/2023, 1:40 PM	Sunny	25	Good (3 - 10km)	0 – 3 ft	3	4/27/2023, 5:39 PM	Sunny	15	Good (3 - 10km)	0 – 3 ft	3				
4/28/2023, 7:00 AM	4/28/2023, 11:17 AM	Ben Chubak	Rincon	P1	4/28/2023, 7:15 AM	Overcast	100	Moderate (0.9 – 3km)	0 – 3 ft	1	4/28/2023, 11:15 AM	Sunny	10	Good (3 - 10km)	0 – 3 ft											

Monitoring Start Date/ Time	Monitoring End Date/ Time	Lead Observer Name	Observer Affiliation	PSO Location	Time (Morning)	Weather Condition	Percent Cloud Cover	Visibility	Wave Height	Beaufort Wind Speed	Time (Afternoon)	Weather Condition	Percent Cloud Cover	Visibility	Wave Height	Beaufort Wind Speed	Time (End of Day)	Weather Condition	Percent Cloud Cover	Visibility	Wave Height	Beaufort Wind Speed	
5/2/2023, 9:00 AM	5/2/2023, 4:45 PM	Adam Sachs	Rincon	P1	5/2/2023, 9:00 AM	Partly Cloudy	50	Good (3 - 10km)	0 - 3 ft	1	5/2/2023, 12:00 PM	Partly Cloudy	50	Good (3 - 10km)	0 - 3 ft	3	5/2/2023, 4:45 PM	Partly Cloudy	40	Good (3 - 10km)	0 - 3 ft	3	
5/3/2023, 9:45 AM	5/3/2023, 4:46 PM	Adam Sachs	Rincon	P1	5/3/2023, 9:51 AM	Partly Cloudy	30	Good (3 - 10km)	0 - 3 ft	1	5/3/2023, 12:10 PM	Partly Cloudy	60	Good (3 - 10km)	0 - 3 ft	2	5/3/2023, 4:39 PM	Overcast	90	Good (3 - 10km)	0 - 3 ft	2	
5/4/2023, 7:36 AM	5/4/2023, 6:30 PM	Adam Sachs	Rincon	P1	5/4/2023, 7:36 AM	Partly Cloudy	70	Good (3 - 10km)	0 - 3 ft	1	5/4/2023, 12:20 PM	Partly Cloudy	60	Good (3 - 10km)	0 - 3 ft	3	5/4/2023, 5:29 PM	Partly Cloudy	80	Good (3 - 10km)	0 - 3 ft	3	
5/5/2023, 7:13 AM	5/5/2023, 2:10 PM	Adam Sachs	Rincon	P1	5/5/2023, 7:13 AM	Overcast	100	Good (3 - 10km)	0 - 3 ft	1	5/5/2023, 12:28 PM	Partly Cloudy	50	Good (3 - 10km)	0 - 3 ft	3	5/5/2023, 2:10 PM	Partly Cloudy	30	Good (3 - 10km)	0 - 3 ft	3	
5/8/2023, 6:30 AM	5/8/2023, 4:20 PM	Gayle McDermott	Rincon	P1	5/8/2023, 6:41 AM	Sunny	10	Excellent (>10km)	0 - 3 ft	2	5/8/2023, 12:34 PM	Sunny	5	Excellent (>10km)	0 - 3 ft	2	5/8/2023, 3:54 PM	Sunny	0	Excellent (>10km)	0 - 3 ft	3	
5/9/2023, 6:56 AM	5/9/2023, 12:04 PM	Adam Sachs	Rincon	P1	5/9/2023, 6:56 AM	Sunny	25	Good (3 - 10km)	0 - 3 ft	1	5/9/2023, 12:04 PM	Overcast	90	Good (3 - 10km)	0 - 3 ft	2	NA						
7/5/2023, 6:00 AM	7/5/2023, 6:00 PM	Ben Chubak	Rincon	P1	NA Dredging																		
7/6/2023, 6:00 AM	7/6/2023, 6:00 PM	Alex Sheppard	Rincon	P1	NA Dredging																		
7/10/2023, 6:00 AM	7/10/2023, 6:00 PM	Lewis Koplin	MMSC	P1	NA Dredging																		
7/11/2023, 6:00 AM	7/11/2023, 6:00 PM	Lewis Koplin	MMSC	P1	NA Dredging																		
7/12/2023, 6:00 AM	7/12/2023, 6:00 PM	Ben Chubak	Rincon	P1	NA Dredging																		
7/13/2023, 6:00 AM	7/13/2023, 6:00 PM	Nick Fager	Rincon	P1	NA Dredging																		
9/25/2023, 7:11 AM	9/25/2023, 3:30 PM	Alex Shepherd	Rincon	P1	9/25/2023, 7:00 AM	Overcast	100	Moderate (0.9 - 3km)	0 - 3 ft	1	9/25/2023, 12:00 PM	Partly Cloudy	20	Good (3 - 10km)	0 - 3 ft	2	9/25/2023, 4:17 PM	Sunny	5	Good (3 - 10km)	0 - 3 ft	3	
9/26/2023, 6:25 AM	9/26/2023, 9:12 AM	Derek Lerma	Rincon	P1	9/26/2023, 6:26 AM	Partly Cloudy	20	Good (3 - 10km)	0 - 3 ft	0	9/26/2023, 9:15 AM	Fog		Poor (0.5 - 0.9km)	0 - 3 ft	2	NA						
9/28/2023, 5:59 AM	9/28/2023, 2:00 PM	Alex Shepherd	Rincon	P1	9/28/2023, 6:00 AM	Overcast	90	Good (3 - 10km)	0 - 3 ft	0	9/28/2023, 11:15 AM	Overcast	80	Moderate (0.9 - 3km)	4 - 6 ft	1	9/28/2023, 1:32 PM	Partly Cloudy	75	Moderate (0.9 - 3km)	0 - 3 ft	3	
9/29/2023, 6:00 AM	9/29/2023, 2:30 PM	Alex Shepherd	Rincon	P1	9/29/2023, 6:36 AM	Overcast	100	Moderate (0.9 - 3km)	0 - 3 ft	0	9/29/2023, 12:11 PM	Overcast	100	Moderate (0.9 - 3km)	0 - 3 ft	2	9/29/2023, 1:09 PM	Overcast	100	Moderate (0.9 - 3km)	0 - 3 ft	2	
10/2/2023, 6:44 AM	10/2/2023, 1:37 PM	Alex Shepherd	Rincon	P1	10/2/2023, 6:45 AM	Sunny	0	Excellent (>10km)	0 - 3 ft	1	10/2/2023, 12:33 PM	Sunny	532	Moderate (0.9 - 3km)	0 - 3 ft	2	10/2/2023, 1:37 PM	Sunny	0	Moderate (0.9 - 3km)	0 - 3 ft	2	
10/3/2023, 6:30 AM	10/3/2023, 2:08 PM	Alex Shepherd	Rincon	P1	10/3/2023, 7:09 AM	Sunny	5	Moderate (0.9 - 3km)	0 - 3 ft	2	10/3/2023, 11:42 AM	Light Rain	5	Moderate (0.9 - 3km)	0 - 3 ft	2	10/3/2023, 2:08 PM	Sunny	0	Moderate (0.9 - 3km)	0 - 3 ft	3	
10/4/2023, 6:00 AM	10/4/2023, 12:29 PM	Derek Lerma	Rincon	P1	10/4/2023, 6:25 AM	Sunny	0	Good (3 - 10km)	0 - 3 ft	0	10/4/2023, 12:27 PM	Sunny	0	Good (3 - 10km)	0 - 3 ft	1	10/4/2023, 3:28 PM	Sunny	0	Moderate (0.9 - 3km)	0 - 3 ft	3	
10/5/2023, 6:00 AM	10/5/2023, 11:40 AM	Alex Shepherd	Rincon	P1	10/5/2023, 6:45 AM	Sunny	0	Excellent (>10km)	0 - 3 ft	0	10/5/2023, 10:30 AM	Sunny	0	Good (3 - 10km)	0 - 3 ft	1	10/5/2023, 11:40 AM	Sunny	0	Good (3 - 10km)	0 - 3 ft	1	